

HL7 Version 2.5.1 Implementation Guide: Syndromic Surveillance, Release 1 - US Realm

May 2018

HL7 STU Ballot

Sponsored by:
Public Health Work Group
Emergency Care Work Group
Patient Administration Work Group

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	snomed-ct or info@ihtsdo.org
Logical Observation Identifiers Names	Regenstrief Institute
& Codes (LOINC)	
International Classification of Diseases	World Health Organization (WHO)
(ICD) codes	
NUCC Health Care Provider	American Medical Association. Please see www.nucc.org. AMA
Taxonomy code set	licensing contact: 312-464-5022 (AMA IP services)



IMPLEMENTATION GUIDE FOR SYNDROMIC SURVEILLANCE

Release 1.0 STU (US Realm)

2018/03/30 00:52

HL7 VERSION 2.5.1
INTERNATIONAL SOCIETY FOR DISEASE SURVEILLANCE

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1 ABOUT THIS GUIDE

1.1 Publication history

Prior to HL7, this guide was titled "PHIN Messaging Guide for Syndromic Surveillance" and had the following revisions.

Revision	Date	Author
Release 1.0	10/1/2011	ISDS, CDC Messaging Team
Release 1.1	8/1/2012	ISDS, CDC Messaging Team
Release 1.2 DRAFT for Review	10/1/2012	ISDS, CDC Messaging Team
Release 1.3 DRAFT for Review	12/1/2012	ISDS, CDC Messaging Team
Release 1.9	4/1/2013	ISDS, CDC Messaging Team
Release 2.0 DRAFT for REVIEW	8/5/2014	ISDS, CDC Messaging Team
Release 2.0 DRAFT for REVIEW	9/16/2014	ISDS, CDC Messaging Team and Standards and Interoperability activity
Release 2.0 Final Draft	4/21/2015	ISDS, CDC Messaging Team and Standards and Interoperability activity
Release 2.2 DRAFT for Community contribution	5/22/2017	ISDS, CDC Messaging Team

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1.3 Acknowledgements

This guide was produced and developed through the efforts of a project designed to specify an implementation guide for the Syndromic Surveillance. A list of core data elements for Syndromic Surveillance was developed by the International Society for Disease Surveillance (ISDS) in collaboration with the Centers for Disease Control and Prevention (CDC), Office of Surveillance, Epidemiology and Laboratory Services (OSELS), Public Health Surveillance Program Office (PHSPO). The BioSense Program in PHSPO has provided funding to support these activities.

The CDC, OSELS, Public Health Informatics and Technology Program Office (PHITPO) have been the principal author in the development of this implementation guide. A draft of the implementation specification was reviewed by many national and state public health organizations, standard development organizations and vendors, including the Joint Public Health Informatics Taskforce (JPHIT), Public Health Data Standards Consortium (PHDSC), Health Level 7 (HL7), and the American Health Information Management Association (AHIMA).

1.4 In this guide

This Guide provides:

- An HL7 implementation and content reference standard for national, syndromic surveillance electronic health record technology certification
- A template for local and state syndromic surveillance implementation guides
- A resource for planning for the increasing use of electronic health record technology and for
 providing details on health data elements that may become a part of future public health syndromic
 surveillance implementation requirements

This implementation guide replaces or supersedes all previous Syndromic Surveillance guide releases and related documentation.

1.5 About HL7 2.5.1

HL7 (Health Level Seven) Version 2 is the most widely used standard for computer communication of patient information in the United States Healthcare industry today. This guide is based on the HL7 version 2.5.1 messaging standard, published by Health Level Seven International, Inc., and approved as an ANSI standard on February 21, 2007, as an update to the version 2.5 standard released in 2003. This section describes the messages used for syndromic surveillance, and includes a very brief introduction to HL7 terms and concepts. The reader is referred to the full HL7 version 2.5.1 Standard for complete information and details of this background.

1.6 Intended audience

This Guide has three audiences. The first is managers of healthcare and public health information systems who must understand this process at a high level. The second is technical personnel who develop or work with the information systems that extract, transport, load and transform electronic health record (EHR) data for syndromic surveillance. Finally, the third is national health information technology policy makers who develop and implement EHR technology certification rules and procedures to promote gains in systems interoperability and capability.

1.7 Introduction to syndromic surveillance

Syndromic surveillance is a process that regularly and systematically uses health and health-related data in near "real-time" to make information available on the health of a community. This information includes statistics on disease trends and community health seeking behaviors that support essential public health surveillance functions in governmental public health authorities (PHAs). Syndromic surveillance is particularly useful to local, state, and federal PHAs for supporting public health situational awareness, emergency response management, and outbreak recognition and characterization. Patient visit data from healthcare settings are a critical input for syndromic surveillance. Clinical data are provided by hospitals and urgent care centers to PHAs for all patient visits (not a subset), and used by PHAs under authorities granted to them by applicable local and state laws.

For the purposes of this Implementation Guide, emergency department and urgent care services are defined using the following definition from the Centers for Medicare and Medicaid Services (CMS), see Medicare Benefit Policy Manual, Chapter 15. (Rev. 157, 06-08-12). Section 40.29-Definition of Emergency and Urgent Care Situations (Rev. 1, 10-01-03). B3-3044.29. Available online: https://www.cms.gov/Regulations-and-Guidance/Manuals/downloads/bp102c15.pdf

The CDC's Public Health Information Network (PHIN) is a national initiative to increase the capacity of public health agencies to electronically exchange data and information across organizations and jurisdictions (e.g., clinical care to public health, public health to public health and public health to other federal agencies). To do so, PHIN promotes the use of standards and defines functional and technical requirements for public health information exchange.

Health Level Seven (HL7) is a nationally recognized standard for electronic data exchange between systems housing health care data. The HL7 standard is a key factor that supports this two-way exchange of information because it defines a syntax or grammar for formulating the messages that carry this information. It further describes a standard vocabulary that is used in these messages. HL7 also does not depend on specific software, that is, it is platform independent.

This document represents the collaborative effort of the International Society for Disease Surveillance (ISDS), the Centers for Disease Control and Prevention (CDC), and National Institute of Standards and Technology (NIST) to specify a national electronic messaging standard that enables disparate healthcare applications to submit or transmit administrative and clinical data for public health surveillance and response. A set of recommendations made by expert committees convened by ISDS and CDC serve as the basis for this guide:

 International Society for Disease Surveillance. (2011, January). Final Recommendation: Core Processes and EHR Requirements for Public Health Syndromic Surveillance. Available online: https://healthsurveillance.site-ym.com/?page=sys_MU_2011_recom International Society for Disease Surveillance. Electronic Syndromic Surveillance Using Hospital Inpatient and Ambulatory Clinical Care Electronic Health Record Data: Recommendations from the ISDS Meaningful Use Workgroup. 2012. Available online: https://www.surveillancerepository.org/electronic-syndromic-surveillance-using-hospital-inpatient-and-ambulatory-clinical-care-electronic

1.8 Policy background

On February 17, 2009, the President signed the American Recovery and Reinvestment Act of 2009 (Recovery Act). Title XIII of Division A and Title IV of Division B of the Recovery Act, together cited as the Health Information Technology for Economic and Clinical Health Act (HITECH Act), include provisions to promote meaningful use of health information technology (health IT) to improve the quality and value of American health care.

In July 2010, the Center for Medicare and Medicaid Services (CMS) released the Stage 1 Final Rule - Medicare and Medicaid Programs; Electronic Health Record Incentive Program; Final Rule, July 28, 2010. The Office of the National Coordinator for Health Information Technology (ONC) released a companion regulation - Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology: Final Rule July 28, 2010. This final rule defined standards, specifications, and certification criteria for the 2011 Edition Electronic Health Record (EHR) Technology necessary to meet the Meaningful Use (MU) objectives defined in the CMS Stage 1 Final Rule. The Stage 1 MU menu (optional) objectives included a public health related objective for reporting syndromic surveillance data. Although there was a standard specified for syndromic surveillance reporting in Stage 1 (HL7 2.3.1 or HL7 2.5.1), there was no implementation guide or specification mandated in the 2011 Edition EHR certification criteria.

In September 2010, the Centers for Disease Control and Prevention (CDC) supported the International Society for Disease Surveillance (ISDS) to recommend EHR requirements for core Syndromic Surveillance business practices. ISDS used a community consensus-driven process to develop its recommendation, receiving input from a workgroup of local and state Syndromic Surveillance experts served as the basis for early recommendation iterations (i.e., Preliminary Recommendation on 9/30/10, and a Provisional Recommendation on 12/1/10). Input collected during a public comment period on the provisional recommendations document then informed ISDS's, "Final Recommendation: The Core Processes & EHR Requirements of Public Health Syndromic Surveillance", published in January 2011. CDC translated the ISDS business requirement recommendations to technical specifications and published the PHIN Messaging Guide for Syndromic Surveillance: Emergency Department and Urgent Care Data, Release 1.0 in October 2011.

The CMS Stage 2 EHR Meaningful Use final rule was published in the Federal Register on September 4th, 2012. The corresponding ONC final rule also published on September 4th, 2012 defined the standards, implementation specifications, and certification criteria for 2014 Edition Electronic Health Record Technology. In Stage 2, the syndromic surveillance objective, moved the to the core (required) objectives for eligible hospitals and remained a menu objective for eligible professionals. The 2014 Edition EHR certification criteria mandated HL7 2.5.1 standard and the PHIN Messaging Guide for Syndromic Surveillance: Emergency Department and Urgent Care Data, Release 1.1 (August 2012) for EHR products certified for the inpatient (hospital) settings and made this guide optional for EHR products certified for the ambulatory setting.

ONC adopted an optional 2014 Edition (Release 2.0) "syndromic surveillance" certification criterion (§ 170.314(f) (7)) for the ambulatory setting.

This optional certification criterion on "syndromic surveillance" permits EHR technology designed for the ambulatory setting, was to simply demonstrate that the EHR technology can electronically create syndrome-based public health surveillance information for electronic submission (using any method or standard) to be certified to this criterion.

This provided certification flexibility, while also providing a path forward. The ONC 2014 Edition Release 2.0 Certification criteria included an optional set of data elements within this optional certification criterion to provide some additional specificity and to which EHR technology developers may choose to have their EHR technology certified. These data elements included:

- Patient demographics
- Provider specialty
- Provider address
- Problem list
- Vital signs
- Laboratory results
- Procedures
- Medications
- Insurance

While the aforementioned data elements are optional for the purposes of demonstrating compliance to this certification criterion, if an EHR technology developer wishes to certify its EHR technology to this criterion as a whole, including the optional data set, the EHR technology would need to demonstrate that it can electronically produce syndromic surveillance information that contains all of the data elements.

1.9 Scope

The scope of this guide is to provide guidelines for sending HL7 v.2.5.1 compliant messages from emergency department, urgent and ambulatory care and inpatient settings to public health authorities.

This Guide is intended to facilitate the exchange of patient clinical visit records for syndromic surveillance purposes between different systems. This includes:

- Sending for all patient visits
- Treatment facility information
- Limited personal identifiable information
- Demographic information about patients
- Visit information
- Diagnostic and pre-diagnostic information
- Vital measurement information
- Risk factor and other information
- Acknowledging message receipt

The Guide is not intended to specify other issues such as:

- Establishing and maintaining a health data relationship among healthcare providers and PHAs
- Legal and governance issues regarding data access authorizations, data ownership and data use

- Business rules, which are not implicit in HL7, applied when creating a message (including data extraction from source systems);
- A standard transport layer;
- Business rules, which are not implicit in HL7, applied when processing a received message (including translation, normalization, and preparing data for statistical analyses); and
- Data quality monitoring and control.

Local and state implementers are responsible for the important issues described above. One way to ensure success is to publish a local profile or implementation guide that outlines the local business rules and processes. These guides may further constrain this Guide, but may not contradict it. This Guide does identify some of the key issues that should be addressed in local profiles.

1.10 Assumptions

This Guide makes the following assumptions:

- Infrastructure is in place to allow accurate and secure information exchange between sending and receiving systems;
- Privacy and security has been implemented at an appropriate level; and
- External business rules are documented locally

An ability to join multiple records for the same patient visit with limited personal identifiable information, as well as to securely look up additional information about the patient, is crucial for syndromic surveillance practice. Depending on local jurisdiction, this requires that data senders provide a record identifier with each and every visit record, in addition to maintaining well-defined data integration and supporting timely public health investigation processes. Guidance for these and other core syndromic surveillance processes are available from ISDS in "Core Processes and EHR Requirements for Public Health Syndromic Surveillance." Visit ISDS at http://www.syndromic.org for more information.

1.11 Useful resources

Newest national standard for syndromic surveillance messaging:

- PHIN Messaging Guide for Syndromic Surveillance: Emergency Department, Urgent Care, Inpatient and Ambulatory Care Settings (Release 2.0, January 2015)
 www.cdc.gov/nssp/documents/guides/syndrsurvmessagguide2_messagingquide_phn.pdf
- All versions of the PHIN Messaging Guide for Syndromic Surveillance are posted at: https://www.cdc.gov/phin/resources/phinguides.html

Messaging and terminology standards and validation:

- National Institute of Standards and Technology (NIST) Syndromic Surveillance validation tool http://hl7v2-ss-testing.nist.gov/mu-syndromic/
- Health Level Seven International (HL7) standards development organization http://www.hl7.org/
- PHIN Vocabulary Access and Distribution System (VADS) http://phinvads.cdc.gov/
- International Classification of Diseases, Tenth Revision (ICD10) http://www.icd10data.com/
- Logical Observation Identifiers Names and Codes (LOINC) resource http://loinc.org/
- Systematized Nomenclature of Medicine-Clinical Terms (SNOMED CT) http://www.ihtsdo.org/snomed-ct/
- American Medical Association Current Procedural Terminology (CPT) https://www.ama-assn.org/practice-management/cpt-current-procedural-terminology

ISDS Meaningful Use resources:

The International Society for Disease Surveillance (ISDS) is a 501(c)3 nonprofit organization founded in 2005 with a mission to improve population health by advancing the science and practice of disease surveillance. ISDS's 430+ membership represents the public health surveillance community, including:

- Local, state, federal, and global public health practitioners and policymakers
- Government agencies
- Academic researchers
- Non-profit associations
- Clinical health care providers
- For-profit organizations
- Graduate students
- Other stakeholders in disease surveillance

http://www.healthsurveillance.org

Electronic Syndromic Surveillance Using Hospital Inpatient and Ambulatory Clinical Care Electronic Health Record Data. Recommendations from the ISDS Meaningful Use Workgroup. November 2014.

1.12 Revisions from PHIN Messaging Guide, Release 2.2

The following decisions were made by the work group:

- Removed all references to laboratory data
- Removed all ICD 9 references
- Removed all references to HL7 v2.3.1
- Change all references of encounter to visit. Also, clarified guidance to state that visit ID (PV1-19) and visit time (PV1-44) should remain constant throughout the visit.
- 2.1 Business Rules, transmission timeliness was changed to use this wording, "Electronic transfer shall occur immediately at the time of the emergency department visit if feasible, but not later than twenty-four (24) hours from the time of the visit."
- Patient name guidance was changed to read, "Patient name may be submitted according to the local jurisdiction or public health agency regulations and specifications. If the jurisdiction or public health agency does not require patient name to be submitted, Visit or Patient ID, as specified within this guide, shall be used by PHAs to join related visit data and for working with hospitals to find additional visit information for syndromic surveillance signal confirmation or investigation. Since, however, HL7 requires the patient name, the field must be populated even when data patient name shall not be sent. In such an instance (i.e., patient name is not sent), patient name shall be presented in a pseudonymized manner."
- New or Updated Value Sets
 - Discharge disposition (PV1-36) PHVS_DischargeDisposition_HL7_2x
 - o Patient Class (PV1-2) PHVS PatientClass SyndromicSurveillance
 - Diagnosis Code (DG1-3) PHVS_AdministrativeDiagnosis_CDC_ICD-10CM and PHVS_Disease_CDC
 - Admit Reason (PV2-3) PHVS_AdministrativeDiagnosis_CDC_ICD-10CM and PHVS_Disease_CDC
 - Procedure Codes (PR1-3) PHVS_AdministrativeProcedure_CDC_ICD-10PCS
 - Medication List PHVS_MedicationClinicalDrugName_HITSP and PHVS MedicationBrandName HITSP
 - Patient Service Location PHVS HealthcareServiceLocation Syndromic
 - Initial Acuity PHVS_EmergencySeverityIndexAcuity_CDC
- OBX Usage Elevated these from O to RE
 - Pregnancy Status
 - Travel History
 - Triage Notes
 - o Age

Messaging Examples were updated and corrected to pass NIST testing using the IGAMT exported conformance profiles from this guide.

Reorganization to streamline and reduce redundancy

- Section 5 Syndromic surveillance data elements of interest into Message Infrastructure
- Appendix A Code Tables incorporated into Message Infrastructure
- Appendix B Message Examples has become section 2.5
- Appendix C Conformance Statements incorporated into Message Infrastructure
- Appendix D Future data elements was removed
- Appendix E Translation to 2.3.1 was removed
- Appendix F Useful Resources has become section 1.11
- Appendix G Discharge Disposition incorporated into Message Infrastructure
- Appendix H A08 Message Triggers has become section 2.6
- Appendix I Background has become sections 1.7 and 1.8
- Appendix J Revision History has become section 1.12

2 ACTORS, GOALS AND MESSAGING TRANSACTIONS

2.1 Use case model

The use case model is based on business process documentation and core requirements for public health syndromic surveillance using electronic health record data from emergency department (ED), urgent care (UC), inpatient and ambulatory care (AC) settings.

Table 2-1 Syndromic Surveillance Use Case Description

	CASE: ED/UC/AC and INPATIENT Health Record Syndromic Data to Public Health
ITEM	DETAIL
Description	 The Public Health Syndromic Surveillance Use Case focuses on the transmission of electronic health data from healthcare providers (senders) and the reception of that data by a public health authorities (PHAs) (receivers). Health data transmitted are captured in a health information system during a patient's visit to a healthcare facility. Senders of data include, but are not limited to hospitals, emergency departments, urgent care centers, ambulatory care settings, clinician networks, hospital corporations, corporate third-party operators of information brokers, regional data centers for hospitals, health information exchanges (HIEs), and regional health information organizations (RHIOs). Receivers may be state, regional and/or local public health authorities, or a designated third party. A PHA is broadly defined as including agencies or authorities of the United States, states, territories, political subdivisions of states or territories, American Indian tribes, or an individual or entity acting under a gran of authority from such agencies and responsible for public health matters as part of an official mandate. The goal of the use case is to provide secure, reliable delivery of syndromic surveillance data to PHAs. A variety of transport methods may be used. If PHIN MS is used for transport, then use of the HL7 Acknowledgements may be unnecessary, although PHIN MS does not ensure that the payload conforms to HL7 formatting rules, it does provide safe and reliable transport. If another transport mechanism is chosen, consideration should be given for acknowledgement of messages, whether single or batch, and/or possible acknowledgement of payload prior to processing or consumption.
Actors	 Patient - A person receiving or registered to receive medical treatment. Senders of syndromic surveillance data include, but are not limited to: Hospitals, emergency departments, urgent care centers, and regional data centers for hospitals.
	Receivers of syndromic surveillance data include PHA's.

TABLE 2-1: USE (CASE: ED/UC/AC and INPATIENT Health Record Syndromic Data to Public Health			
Assumptions and Limitations	The following assumptions are preconditions for the use of this profile:			
	 Syndromic surveillance data senders are responsible for providing data that are syntactically and semantically consistent with the syndromic surveillance data receiver's requirements. Prior to sending syndromic data, the data sender and receiver have completed all 			
	the necessary legal and administrative steps required for syndromic surveillance data exchange.			
	 The scope of data is limited to patient visits information and any subsequent diagnosis related to the visit. Scheduled (future) visit data shall not be sent 			
Business Rules	All settings:			
	 Data must be timely for syndromic surveillance. Electronic transfer shall occur immediately at the time of the emergency department visit if feasible, but not later than twenty-four (24) hours from the time of the start of the visit. Any subsequent updates to a patient's record must also be submitted within 24 hours of the information (transaction) being added to the patient record. Real time data transmission, or very frequent batch data transmission, is preferred. If batch transmission mode is utilized, batches must be transmitted at least once every 6 hours. 			
	 Conformance Statement SS-001: ALL messages constrained by this guide that are produced as a result of a single patient visit for the purpose of syndromic surveillance, SHALL have the same value for PV1-19.1 (Visit ID). 			
	 Conformance Statement SS-002: Messages constrained by this guide that are produced as a result of different patient visits for the purpose of syndromic surveillance, SHALL NOT have the same value for PV1-19.1 (Visit ID). 			
	When any/all data elements new or previously sent are updated in the sender's system, the entire record (i.e., all specified elements) shall be resent. Message receivers will use unique identifiers to match and reconcile records.			
	 Provide syndromic surveillance data for all face-to-face clinical visits. Provide, with each syndromic surveillance record, de-identified data unless otherwise required by the local jurisdiction for patient tracking. 			

The Send Syndromic Surveillance Data Use Case Model has two primary participating actors, the Syndromic Data Sender and the Syndromic Data Receiver. The patient actor triggers the sending of the data initially from the original provider. See Figure 2.1 below.

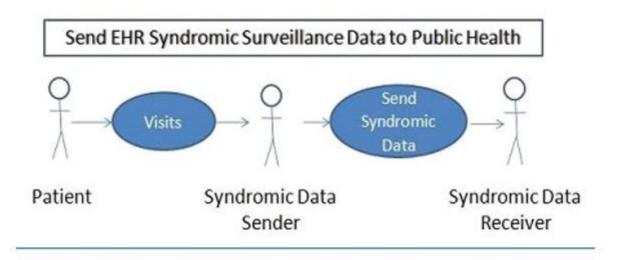
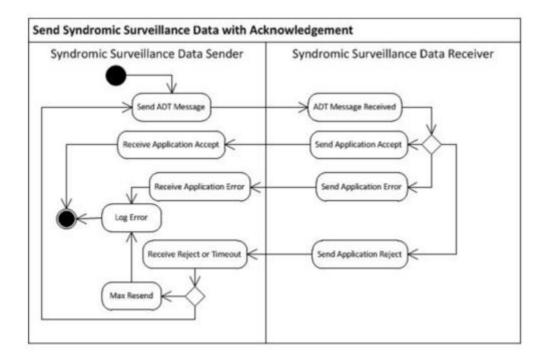


Figure 2-1 Send Syndromic Surveillance Data Use Case Model

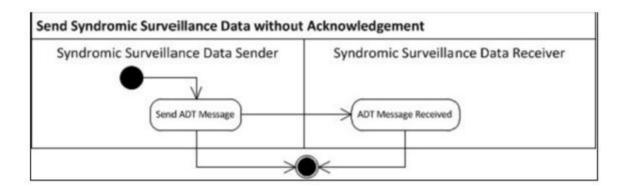
2.2 Dynamic interaction models

2.2.1 SEND SYNDROMIC SURVEILLANCE DATA WITH ACKNOWLEDGEMENT



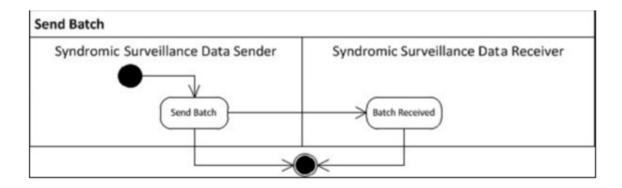
The Send Syndromic Surveillance Data with Acknowledgement activity diagram model consists of Syndromic Surveillance Data Sender transmitting data to the Syndromic Surveillance Data Receiver. An acknowledgement is sent by the Syndromic Surveillance Data Receiver.

2.2.2 SEND SYNDROMIC SURVEILLANCE DATA WITHOUT ACKNOWLEDGEMENT

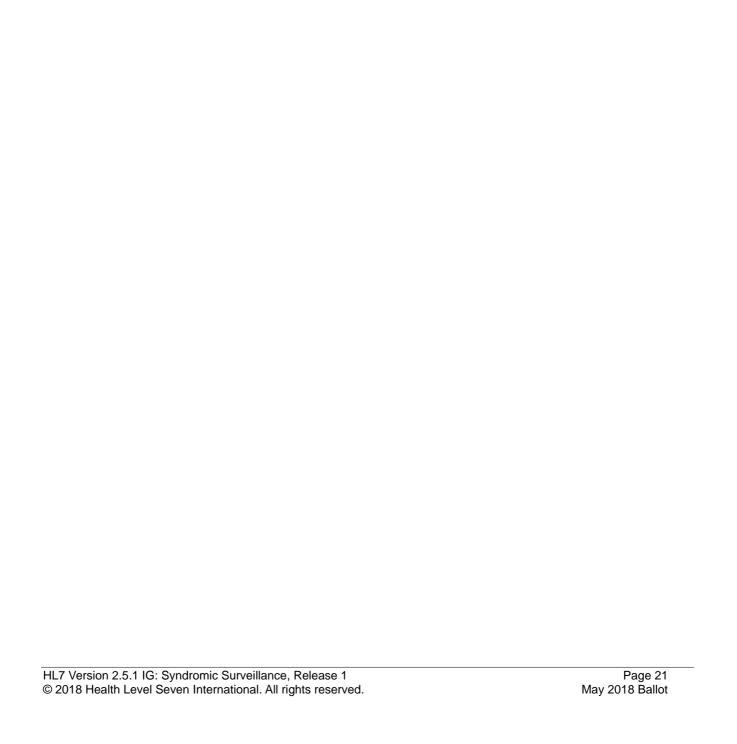


The Send Syndromic Surveillance Data without Acknowledgement activity diagram model consists of Syndromic Surveillance Data Sender transmitting data to the Syndromic Surveillance Data Receiver. An acknowledgement is not sent by the Syndromic Surveillance Data Receiver.

2.2.3 SEND SYNDROMIC SURVEILLANCE DATA - BATCH



The Send Syndromic Surveillance Data Batch activity diagram model consists of Syndromic Surveillance Data Sender transmitting a batch to the Syndromic Surveillance Data Receiver. An acknowledgement is not sent by the Syndromic Surveillance Data Receiver.



2.3 Message acknowledgements

HL7 messages that are sent from a healthcare setting to Public Health may be acknowledged. The Acknowledgement type will be solely HL7 Original Mode; no Enhanced Mode Acknowledgements are supported. This means that the receiver at the public health department must assume responsibility for the syndromic surveillance message before it sends the Acknowledgement message, i.e., it must commit the message to persistent storage and intend to process the message. The only conditions that are evaluated for the positive acknowledgement or a possible error rejection are the:

- Message Type contained in MSH-9 is one that can be processed
- Processing ID contained in MSH-11 is appropriate for the communications and can be processed
- Version ID contained in MSH-12 is 2.5.1 and can be processed.

Other types of possible errors in the message, especially in content, must result in downstream action after the acknowledgement message has been sent.

Note: Although the Original Model Acknowledgement is simplest and least costly to implement, it does not generally support syntactic validation of messages. Messages that are accepted with an Acknowledgement message may thus still be missing fields that are required. To do this more detailed level of Acknowledgement usually requires Enhanced Mode Accept Acknowledgement.

2.4 Interactions

Some additional ADT trigger events not noted in this section may occur within the normal workflow of an EHR. The below ADT trigger events represent the primary message types for PHAs related to syndromic surveillance.

TABLE 2.4.1: INTERACTIONS - INDIVIDUAL TRANSACTION WITH ACKNOWLEDGEMENTS				
EVENT	MESSAGE TYPE	RECEIVER ACTION	SENDER	DATA VALUES
Patient visits provider/facility	ADT^A01^ADT_A01	Accept, Reject, Error	SS Data Sender	MSH-9 = 'ADT^A01^ADT_A01'
Patient is admitted to provider facility	ADT^A01^ADT_A01	Accept,Reject, Error	SS Data Sender	MSH-9 = 'ADT^A01^ADT_A01'
Provider ends patient's visit	ADT^A03^ADT_A03	Accept, Reject, Error	SS Data Sender	MSH-9 = 'ADT^A03^ADT_A03'
Patient is discharged from facility	ADT^A03^ADT_A03	Accept, Reject, Error	SS Data Sender	MSH-9 = 'ADT^A03^ADT_A03'
Patient registers at provider facility	ADT^A04^ADT_A01	Accept, Reject, Error	SS Data Sender	MSH-9 = 'ADT^A04^ADT_A01'
Patient record is updated	ADT^A08^ADT_A01	Accept, Reject, Error	SS Data Sender	MSH-9 = 'ADT^A08^ADT_A01'
Accept message	ACK message related to type of message sent	None	SS Data Receiver	MSA-1 = 'AA'
Reject message	ACK message related to type of message sent	None	SS Data Receiver	MSA-1 = 'AR'
Error Message	ACK message related to type of message sent	None	SS Data Receiver	MSA-1 = 'AE'

TABLE 2.4.2: INTERACTIONS - INDIVIDUAL TRANSACTION WITHOUT ACKNOWLEDGEMENT / BATCH				
EVENT	MESSAGE TYPE	RECEIVER ACTION	SENDER	DATA VALUES
Patient visits provider/facility	ADT^A01^ADT_A01	None	SS Data Sender	MSH-9 = 'ADT^A01^ADT_A01'
Patient is admitted to provider facility	ADT^A01^ADT_A01	None	SS Data Sender	MSH-9 = 'ADT^A01^ADT_A01'
Provider ends patient's visit	ADT^A03^ADT_A03	None	SS Data Sender	MSH-9 = 'ADT^A03^ADT_A03'
Patient is discharged from facility	ADT^A03^ADT_A03	None	SS Data Sender	MSH-9 = 'ADT^A03^ADT_A03'
Patient registers at provider facility	ADT^A04^ADT_A01	None	SS Data Sender	MSH-9 = 'ADT^A04^ADT_A01'
Patient record is	ADT^A08^ADT_A01	None	SS Data	MSH-9 = 'ADT^A08^ADT_A01'

TABLE 2.4.2: INTERACTIONS - INDIVIDUAL TRANSACTION WITHOUT ACKNOWLEDGEMENT / BATCH		
updated	Sender	

2.5 Messaging examples

This section presents six (6) case studies to illustrate how this Guide should be used for messaging syndromic surveillance information about a patient visit.

A minimal amount of data is used in each case study to emphasize important aspects of the message structure. Among the case studies, variations in the data elements of interest are made to stress clinical or administrative concepts that are important to syndromic surveillance.

Some additional ADT trigger events not noted in this section may occur within the normal workflow of an EHR. The below ADT trigger events represent the core data elements of interest for Public Health Authorities (PHAs) related to syndromic surveillance.

Case 1 - Brief Urgent Care or Emergency Department Visit

Case Study 1 provides an example of a brief patient visit that could take place in either urgent care or emergency department clinical settings. The patient's chief complaint is captured as an unstructured, free-text value using the patient's own words. ADT A04 and A03 messages are generated and sent to the PHA about this visit.

Step 1: Registration Trigger - ADT A04

A 35-year-old female walks into Midtown Urgent Care on August 17, 2017 at 12:00 pm. The patient is registered by a clerical assistant who records the patient's name, date of birth, residence information, race, ethnicity, and records that the patient's reason for visit is, "Fever, chills, smelly urine with burning during urination."

At 12:30 PM on August 17, 2017, the facility's electronic health record module for syndromic surveillance data assembles and transmits a Registration message to Big City Health Department about this visit.

Example Message - Step 1, Case 1:

 $MSH|^{-} \& ||MidTwnUrgentC^2231231234^{NPI}|| 20170817123000-0500 ||ADT^A04^{A}DT_A01|NIST-SS-001.12|P|2.5.1|||AL||||||PH_SS-Ack^SS Sender^2.16.840.1.114222.4.10.3^{ISO} \\$

EVN|A04|20140817123000-0500|||||MidTwnUrgentC^2231231234^NPI

PID|1||2222^^^MidTwnUrgentC&2231231234&NPI^MR||~^^^^^\$||19790505|F||2106-

3^White^CDCREC|^^Decatur^13^30303^^13121|||||||||2135-2^Hispanic or Latino^CDCREC

PV1|1|0|1160-

PV2|||^Fever, chills, smelly urine with burning during urination

OBX|1|CWE|SS003^FACILITY/VISITTYPE^PHINQUESTION||261QU0200X^Urgent Care^HCPT||||||F|||201408171200-0500

OBX|2|XAD|SS002^TREATINGFACILITYLOCATION^PHINQUESTION||1234 Anywhere

Street^^Doraville^13^30341^USA^C^DEKALB|||||F|||201708171200-0500

OBX|3|NM|21612-7^Age-Reported^LN||35|a^year^UCUM|||||F|||201708171200-0500

OBX|4|TX|8661-1^ChiefComplaint^LN||Fever, chills, smelly urine with burning during urination||||||F|||201708171200-0500

Step 2: Discharge Trigger: ADT A03

At 12:35 PM a nurse practitioner examines the patient and diagnoses the patient with urinary tract infection. The nurse assigns an ICD-10-CM diagnosis code within the EHR, and orders a course of antibiotics for the patient. The patient is discharged from the Urgent Care Center at 12:45 PM.

At 2:30 pm on August 17, 2017 the facility's electronic health record module for syndromic surveillance data assembles and transmits a Discharge message to Big City Health Department about this visit.

Example Message - Step 2, Case 1:

MSH|^~\&||MidTwnUrgentC^2231231234^NPI|||20170817143000-0500||ADT^A03^ADT_A03|NIST-SS-

001.22|P|2.5.1|||NE||||||PH_SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVN|A03|20170817143000-0500||||MidTwnUrgentC^2231231234^NPI

PID|1||2222^^^MidTwnUrgentC&2231231234&NPI^MR||~^^^^^S||19790505|F||2106-

3^White^CDCREC|^^Decatur^13^30303^^13121||||||||||2135-2^Hispanic or Latino^CDCREC

PV1|1|0|1160-

1^^^MidTwnUrgentC&2231231234&NPI|U|||||||||||2222_001^^^MidTwnUrgentC&2231231234&NPI^VN||||||||||01||||||201708171 200-0500|201708171245-0500

PV2|||N39.0^Urinary tract infection, site not specified^I10

DG111IIN39.0^Urinary tract infection, site not specified^I10II201708171235-0500IF

OBX|1|CWE|SS003^FACILITY/VISIT TYPE^PHINQUESTION||261QU0200X^Urgent Care^HCPT|||||F|||201708171200-0500

OBX|2|XAD|SS002^TREATINGFACILITYLOCATION^PHINQUESTION||1234 Anywhere

Street^^Doraville^13^30341^USA^C^DEKALB||||||F|||201708171200-0500

OBX|3|NM|21612-7^Age-Reported^LN||35|a^^UCUM|||||F|||201708171200-0500

OBX|4|TX|8661-1^ChiefComplaint^LN||Fever, chills, smelly urine with burning during urination||||||F|||201708171200-0500

OBX|5|CWE|8677-7^MedicationsPrescribedOrDispensed^LN||617296^Amoxicillin 500 MG / Clavulanate 125 MG Oral

Tablet^RXNORM||||||F|||201708171235-0500

Case 2 - Unconscious Patient Dies in Emergency Department

Case Study 2 provides an example of a hospital emergency department visit where the patient demographic information is unavailable at registration, chief complaint is captured as a coded value in PV2-3 Admit Reason, ICD-10-CM codes are captured as part of the working diagnoses, and the patient dies. ADT A04, A08, and A03 messages are generated and sent to the PHA about this visit.

Step 1: Registration Trigger - ADT A04

An unconscious white male with no visible injuries is brought by ambulance to Pacific

Northwest Hospital's Emergency Department at 11:45 PM on August 2, 2017. The paramedics report that firefighters responding to a house fire found the patient unconscious in a bedroom. The patient was not breathing when he was found. Once resuscitated, the paramedics performed an intubation and placed on a ventilator. Unable to find any identification, the patient is registered without his true name, date of birth, or ethnicity. His reason for visit is logged as ICD-10-CM code.

At 2:00 AM on August 3, 2017, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an ADT A04 message to the state health department about this visit.

Example Message - Step 1, Case 2:

MSH|^~\&||PacificNWHospitalED^2231231234^NPI|||20170803020000-0500||ADT^A04^ADT_A01|NIST-SS-

001.12|P|2.5.1|||NE||||||PH SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVN|A04|20170802234500-0500|||||PacificNWHospitalED^2231231234^NPI

PID[1][3333^^^PacificNWHospitalED&2231231234&NPI^MR|]~^^^^^U|||M||2106-3^White^CDCREC

PV2|||X00.1^Exposure to smoke in uncontrolled fire in building or structure^I10

OBX|1|CWE|SS003^FACILITY/VISITTYPE^PHINQUESTION||261QE0002X^Emergency Care^HCPT||||||F|||201708022345-0500

OBX|2|CWE|56816-2^HospitalUnit^LN||1108-0^EmergencyDepartment^HSLOC|||||F|||201708022345-0500

OBX|4|CWE|11283-9^INITIALACUITY^LN||1^Resuscitation^CDCEDACUITY|||||F|||201708022345-0500

Step 2: Record Update Trigger: ADT A08

ED physicians perform a physical examination and blood work and find extremely abnormal blood gas numbers. While these tests are being performed a woman shows up in the ED stating that she is the man's wife. She provides the clinicians with the name and date of birth of the patient. At 2:30 AM on August 3, 2017, a working ICD-10-CM diagnosis code is entered into the patient record along with updated name, ethnicity and date of birth. (Note that name is still not sent in PID-5; the pseudonymizing string is used to have something populate this required field).

At 4:00 AM on August 3, 2017, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an ADT A08 message to the state health department about this visit.

Example Message - Step 2, Case 2:

MSH|^~\&||PacificNWHospitalED^2231231234^NPI|||20170803040000-0500||ADT^A08^ADT_A01|NIST-SS-

001.12|P|2.5.1|||NE|||||PH SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVN|A08|20170803023000-0500|||||PacificNWHospitalED^2231231234^NPI

PID|1||3333^^^PacificNWHospitalED&2231231234&NPI^MR||~^^^^^S||19650314|M||2106-3^White^CDCREC||||||||||||||2186-5^Not Hispanic or Latino^CDCREC

PV1|1|E|1108-

PV2|||X00.1^Exposure to smoke in uncontrolled fire in building or structure^I10

OBX/11/CWE/SS003^FACILITY/VISITTYPE^PHINQUESTION||261QE0002X^Emergency Care^HCPT||||||F|||201708022345-0500

OBX|2|CWE|56816-2^HospitalUnit^LN||1108-0^EmergencyDepartment^HSLOC||||||F|||201708022345-0500

OBX|4|CWE|11283-9^INITIALACUITY^LN||1^Resuscitation^CDCEDACUITY|||||F|||201708022345-0500

DG1|1||J96.0^Acute respiratory failure^I10||201708030230-0500|W

Step 3: Discharge Trigger: ADT A03

At 8:30 AM the heart suddenly stops beating. After several minutes of resuscitation attempts the patient is determined to have died of cardiopulmonary arrest. Time of patient death is 8:55 AM. Final ICD-10-CM diagnosis of I469 is assigned to the patient medical record.

At 10:00 AM on August 3, 2017, the hospital electronic health record module for syndromic surveillance data assembles and transmits an ADT A03 message to the state health department about this visit.

Example Message - Step 3, Case 2:

MSH|^~\&||PacificNWHospitalED^2231231234^NPI|||20170803100000-0500||ADT^A03^ADT_A03|NIST-SS-

001.12|P|2.5.1|||NE||||||PH SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVNIA03I20170803100000-0500|||||PacificNWHospitalED^2231231234^NPI

PID|1||3333^^PacificNWHospitalED&2231231234&NPI^MR||~^^^^^S||19650314|M||2106-3^White^CDCREC||||||||||||||2186-5^Not Hispanic or Latino^CDCREC||||||||201708030855-0500|Y

PV1111EI1108-

DG1|1||I46.9^Cardiac arrest^|10||201708030830-0500|F

OBX|1|CWE|SS003^FACILITY/VISITTYPE^PHINQUESTION||261QE0002X^Emergency Care^HCPT||||||F|||201708022345-0500 OBX|2|CWE|56816-2^HospitalUnit^LN||1108-0^EmergencyDepartment^HSLOC||||||F|||201708022345-0500

OBX|3|TX|54094-8^EmergencyDepartmentTriageNote^LN||firefighters responding to a house fire found the patient unconscious in a bedroom. The patient was not breathing when he was found. Once resuscitated, the paramedics performed an intubation and placed on a ventilator||||||F|||201708022345-0500

OBX|4|CWE|11283-9^INITIALACUITY^LN||1^Resuscitation^CDCEDACUITY||||||F|||201708022345-0500

Case 3 - Patient Admitted from Emergency Department

Case Study 3 provides an example of a hospital emergency department visit is captured as an unstructured, free-text chief complaint, and the patient is discharged from the ED and admitted for inpatient care. ADT A04, A08, A03, and A01 messages are generated and sent to the PHA about this visit.

Step 1: Registration Trigger - ADT A04

A 10-year-old boy is brought to the emergency department (ED) at Southwest Corner Hospital by his parents at 3:30 PM on December 27, 2016. The patient is complaining of fever, cough and difficulty breathing. A clerical assistant registers the patient with the parent's help. She records the patient's name, date of birth, race (note that two races are entered), ethnicity, and residence and insurance information. The clerical assistant also enters the patient's chief complaint as, 'fever, cough, difficulty breathing.'

At 4:00 PM on December 27, 2016, the hospital's electronic health record module for syndromic surveillance data assembles and transmits a Registration message about this visit to the state health department.

Example Message - Step 1, Case 3:

```
MSH|^~\&||SWCornerHospitalED^2231231234^NPI|||20161227160000-0500||ADT^A04^ADT_A01|NIST-SS-
001.12IPI2.5.1IIINEIIIIIIPH SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO
EVN|A04|20161227153000-0500|||||SWCornerHospitalED^2231231234^NPI
PID|1||4444^^SWCornerHospitalED&2231231234&NPI^MR||~^^^^$||20030523|M||2076-8^Native Hawaiian or Other Pacific
Islander^CDCREC~2028-9^Asian^CDCREC|^^City^GA^30303^^^13121||||||||||2186-5^Not Hispanic or Latino^CDCREC
PV1I1IEI1108-
612271530-0500
OBX/11/CWE/SS003^FACILITY/VISIT TYPE^PHINQUESTION||261QE0002X^Emergency Care^HCPT||||||F|||201612271530-0500
OBX|2|NM|21612-7^Age-Reported^LN||10|a^^UCUM|||||F|||201612271530-0500
OBX|3|NM|11289-6^BodyTemperature^LN||101.1|[degF]^Farenheit^UCUM||||F|||201612271530-0500
OBX|4|NM|39156-5^BMI^LN||35|kg/m2^kilogram / (meter squared)^UCUM|||||F|||201612271530-0500
OBX|5|NM|59408-5^OxygenSaturationinArterialBloodbyPulseOximetry^LN||99|%^Percent^UCUM|||||F|||201612271530-0500
OBX|6|NM|8480-6^SystolicBloodPressure^LN||128|mm[Hg]^MilliMeters of Mercury [Blood Pressure
Unit]^UCUM|||||F|||201612271530-0500
OBX/7|NM|8462-4^DiastolicBloodPressure^LN||92|mm[Hg]^MilliMeters of Mercury [Blood Pressure Unit]^UCUM|||||F||201612271530-
0500
OBX|8|TX|8661-1^ChiefComplaint^LN||fever, cough, difficulty breathing||||||F|||201612271530-0500
OBX|9|TS|11368-8^IllnessorInjuryOnsetDateandTime^LN||201612262200-0500||||||F|||201612271530-0500
OBX|10|CWE|11283-9^InitialAcuity^LN||2^Emergent^CDCEDACUITY||||||F||201612271530-0500
OBX|11|TX|44833-2^ClinicalImpression^LN||Shortness of breath, cough, fever||||||F|||201612271530-0500
OBX|12|CWE|56816-2^HospitalUnit^LN||1108-0^EmergencyDepartment^HSLOC||||||F||201612271530-0500
```

Step 2: Record Update Trigger - ADT A08

The attending physician orders treatment and diagnostic tests for influenza and pneumonia. At 5:00 PM, she updates the clinical record with working ICD-10-CM diagnosis codes of R0602 (shortness of breath) and R05 (cough). Shortness of breath is the primary diagnosis.

At 5:15 PM on December 27, 2016, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an Update message about to this visit to the state health department.

Example Message - Step 2, Case 3

OBX|5|TX|44833-2^ClinicalImpression^LN||Shortness of breath, cough, fever||||||F|||201612271530-0500 OBX|6|CWE|56816-2^HospitalUnit^LN||1108-0^EmergencyDepartment^HSLOC||||||F|||201612271530-0500 DG1|1||R06.02^Shortness of breath^110||201612271700-0500|W||||||||| DG1|2||R05^Cough^110||201612271700-0500|W||||||||||

Step 3: Discharge Trigger - ADT A03*

At 7:00 PM, radiology tests indicate that the patient has pneumonia and a rapid influenza test is positive. The physician orders treatment and hospital admission. At 7:30 PM, ED staff complete the patient record and administratively discharge the patient from the ED. The final ICD-10-CM diagnoses codes are J1100 (influenza with pneumonia).

At 7:40 PM on December 27, 2016, the hospital's electronic health record module for syndromic surveillance data assembles and transmits a Discharge message about this visit to the state health department.

*Please note that if the patient is admitted directly from the ED without a discharge transaction, the A03 Discharge message may be created by extrapolating from existing transactions such as the ADT^A06 Change from Outpatient to Inpatient or ADT^A02 Patient Transfer. In addition to Patient Class in PV1-2, the following data elements that are often available in the ADT messages may also help for filtering in the absence of an A03 Discharge transaction: PV1-4 Admission Type, PV1-14 Admit source, PV1-6 Prior Patient Location.

Example Message - Step 3, Case 3:

MSH|^~\&||SWCornerHospitalED^2231231234^NPI|||20161227194000-0500||ADT^A03^ADT_A03|NIST-SS-

001.12|P|2.5.1|||NE|||||PH SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVN|A03|20161227193000-0500|||||SWCornerHospitalED^2231231234^NPI

PID|1||4444^^SWCornerHospitalED&2231231234&NPI^MR||~^^^^S||20030523|M||2076-8^Native Hawaiian or Other Pacific Islander^CDCREC~2028-9^Asian^CDCREC|^^City^GA^30303^^^13121||||||||||||||||2186-5^Not Hispanic or Latino^CDCREC PV1|1|E|1108-

DG1|1||J11.00^Influenza due to unidentified influenza virus with unspecified type of pneumonia^I10||201612271700-0500|F

OBX|1|CWE|SS003^FACILITY/VISIT TYPE^PHINQUESTION||261QE0002X^Emergency Care^HCPT||||||F|||201612271530-0500

OBX|2|TX|8661-1^ChiefComplaint^LN||fever, cough, difficulty breathing||||||F|||201612271530-0500

OBX|3|TS|11368-8\llnessorInjuryOnsetDateandTime^LN||201612262200-0500||||||F|||201612271530-0500

OBX|4|CWE|56816-2^HospitalUnit^LN||1108-0^EmergencyDepartment^HSLOC||||||F|||201612271530-0500

Step 4: Admission Trigger - ADT A01

At 8:00 PM the patient is transported to a hospital room in the Pediatric ICU Unit. Clinical staff complete an admission record with the admit reason recorded as ICD-10-CM diagnosis code J1100 (influenza with pneumonia).

At 8:15 PM on December 27, 2016, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an Admission message about to this visit to the state health department.

Example Message - Step 4, Case 3:

MSH|^~\&|| SWCornerHospitalED^2231231234^NPI|||20161227201500-0500||ADT^A01^ADT_A01|NIST-SS-001.12IPI2.5.1IIINFIIIIIIPH SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO EVN|A01|20161227200000-0500|||||SWCornerHospital^2231231234^NPI PIDI1||4444^^SWCornerHospital&2231231234&NPI^MR||~^^^^\$||20030523|M||2076-8^Native Hawaiian or Other Pacific Islander^CDCREC~2028-9^Asian^CDCREC|^^City^GA^30303^^^^13121||||||||||||2186-5^Not Hispanic or Latino^CDCREC PV1|1||1047-0^302A^^SWCornerHospital&2231231234&NPI|E||1108-00-0500 PV2||J11.00^Influenza due to unidentified influenza virus with unspecified type of pneumonia^I10 OBX|1|CWE|SS003^FACILITY/VISIT TYPE^PHINQUESTION||1021-5^InpatientPracticeSetting^HCPT|||||F|||201612272000-0500 OBX|2|NM|21612-7^Age-Reported^LN||10|a^^UCUM|||||F|||201612272000-0500 OBX|3|NM|11289-6^BodyTemperature^LN||102.5|[degF]^Farenheit^UCUM||||F|||201612272000-0500 OBX|4|NM|39156-5^BMI^LN||35|kg/m2^kilogram / (meter squared)^UCUM|||||F|||201612272000-0500 OBX|5|TX|8661-1^ChiefComplaint^LN||fever, cough, difficulty breathing||||||F|||201612272000-0500 OBX|6|TS|11368-8^IllnessorInjuryOnsetDateandTime^LN||201612262200-0500||||||F|||201612272000-0500 OBX/7ICWEI56816-2^HospitalUnit^LNII1047-0^PediatricRespiratoryCriticalCare^HSLOC||||||F||201612272000-0500 DG1|1||J11.00^Influenza due to unidentified influenza virus with unspecified type of pneumonia^I10||201612272000-0500|A

Step 5: Discharge Trigger: ADT A03

At 7:30 pm on December 28, 2016, the patient is feeling better and is transferred to the general Pediatrics unit. On January 2, 2017 at 3:00 pm the patient is discharged to his home. The final discharge diagnosis is ICD-10-CM diagnosis code J1100 (influenza with pneumonia).

The next day, at 12:00 PM on January 3, 2017, the hospital's electronic health record module for syndromic surveillance data assembles and transmits a Discharge message about this visit to the state health department.

Example Message - Step 5, Case 3:

MSH|^~\&||SWCornerHospitalED^2231231234^NPI|||20140103120000-0500||ADT^A03^ADT_A03|NIST-SS-001.12|P|2.5.1|||NE|||||PH SS-NoAck^SS Sender^2.16.840.1.114222.4.10.3^ISO EVNIA03|20140102150000-0500|||||SWCornerHospitalED^2231231234^NPI PID|1||4444^^SWCornerHospital&2231231234&NPI^MR||~^^^^S||20030523|M||2076-8^Native Hawaiian or Other Pacific Islander^CDCREC~2028-9^Asian^CDCREC|^^City^GA^30303^^^^13121||||||||||2186-5^Not Hispanic or Latino^CDCREC PV1|1|||1211-2^602^1B^SWCornerHospital&2231231234&NPI|E||1047-12281930-0500|201701021500-0500 DG1|1||J11.00^Influenza due to unidentified influenza virus with unspecified type of pneumonia^I10||201401021500-0500|F OBX/1|CWE|SS003^FACILITY/VISIT TYPE^PHINQUESTION||1021-5^InpatientPracticeSetting^HCPT||||||F|||201612272000-0500 OBX|2|NM|8302-2^BodyHeight^LN||45|[in us]^inch^UCUM||||F|||201612272000-0500 OBX|3|NM|3141-9^BodyWeighMeasured^LN||768|[oz av]^ounce^UCUM|||||F|||201612272000-0500 OBX|4|TX|8661-1^Chief Complaint^LN||fever, cough, difficulty breathing||||||F|||201612272000-0500 OBX|5|TS|11368-8^IllnessorInjuryOnsetDateandTime^LN||201612262200-0500||||||F|||201612272000-0500 OBX|6|CWE|56816-2^HospitalUnit^LN||1211-2^PediatricMixedAcuityUnit^HSLOC||||||F|||201612281930-0500 OBX|7|CWE|8677-7^MedicationsPrescribedOrDispensed^LN||1163466^Levofloxacin 25 MG/ML Oral Solution^RXNORM||||||F|||201401021500-0500

Case 4: Inpatient Visit

Case 4 presents an example of direct hospital admission containing all of the hospital inpatient data elements of interest with a Sender Usage of R or RE. ADT A01 and A03 messages are generated and sent to the PHA about this visit.

Step 1: Admission Trigger - ADT A01

On June 7, 2017 at 12:30 pm a black, non-Hispanic 86-year-old male shows up to Greater North Medical Center (Facility Identifier: 4356012945) with a request from his physician to admit him for complications from influenza. During registration the patient's address is recorded as Billings, Yellowstone County, Zip Code 59101. He tells the physician that he is suffering from a fever, chills and body aches as well as worsening shortness of breath. These symptoms are recorded as the patient's chief complaint. At 1:00 pm on June 7, 2017 the patient is admitted to an inpatient respiratory unit with an Admit Reason of ICD-10-CM J111 (Influenza with other respiratory manifestations). The diagnosis type is recorded as an admitting diagnosis. The medical record number as assigned by Greater North Medical Center, 123451247, is used to uniquely identify the patient. The visit number is assigned as 100023451247, which is used to uniquely identify the visit.

At 2:00 pm on June 7, 2017, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an Admission message about this visit to the state health department. PV1-4 Admission Type = 'U' for Urgent; PV1-14 Admission Source = '1' for Physician's referral.

Example Message - Step 1, Case 4

```
MSH|^~\&||GreaterNorthMedCtr^4356012945^NPI|||20170607140000-0500||ADT^A01^ADT A01|NIST-SS-001.12|P|2.5.1|||AL||||||PH SS-Ack^SS
Sender^2.16.840.1.114222.4.10.3^ISO
EVN|A01|20170607130000-0500|||||GreaterNorthMedCtr^4356012945^NPI
PIDI1||123451247^^^GreaterNorthMedCtr&4356012945&NPI^MR||~^^^^$||19280204|M||2054-5^Black or African
American^CDCREC|^ABillings^MT^59101^^^30111||||||||||2186-5^Not Hispanic or Latino^CDCREC
4^^GreaterNorthMedCtr&4356012945&NPIIU||||||||||100023451247^^GreaterNorthMedCtr&4356012945&NPI^VN||||||||||||||||201706071300
PV2||J10.1^Influenza due to other identified influenza virus with other respiratory manifestations^I10
OBX|1|CWE|56816-2^HospitalUnit^LN||1069-4^InpatientPulmonaryWard^HSLOC||||||F|||201706071300-0500
OBX|2|NM|21612-7^Age-Reported^LN||86|a^year^UCUM|||||F|||201706071300-0500
OBX|3|TX|8661-1^Chief Complaint^LN||fever, chills and body aches; worsening shortness of breath||||||F|||201706071300-0500
OBX|4|NM|11289-6^BodyTemperature^LN||99.8|[degF]^Farenheit^UCUM|||||F|||201706071300-0500
OBX|5|NM|39156-5^BMI^LN||30|kg/m2^kilogram / (meter squared)^UCUM|||||F|||201706071300-0500
OBX|6|NM|59408-5^OxygenSaturationinArterialBloodbyPulseOximetry^LN||99|%^Percent^UCUM||||F||201706071300-0500
OBX|7|NM|8480-6^SystolicBloodPressure^LN||128|mm[Hg]^MilliMeters of Mercury [Blood Pressure Unit]^UCUM|||||F|||201706071300-0500
OBX|8|NM|8462-4^DiastolicBloodPressure^LN||92|mm|Hg|^MilliMeters of Mercury [Blood Pressure Unit]^UCUM|||||F||201706071300-0500
OBX|9|TX|10182-4^HistoryOfTravelNarrative^LN||Travel within the past 30 days:yes~Travel outside the United States:no||||||F|||201706071300-0500
OBX|10|CWE|72166-2^TobaccoSmokingStatus^LN||449868002^Current every day smoker^SCT||||||F|||201706071300-0500
OBX|11|CWE|11450-4^ProblemList^LN|1|47372000^Adjustment disorder with anxious mood^SCT||||||F||201706071300-0500
OBX|12|CWE|11450-4^ProblemList^LN|2|F4321^Adjustment disorder with depressed mood^l10|||||||||201706071300-0500
OBX|13|CWE|11450-4^ProblemList^LN|3|195967001^Asthma (disorder)^SCT||||||F|||201706071300-0500
OBX|14|CWE|11450-4^ProblemList^LN|4|H547^Unspecified visual loss^|10|||||F|||201706071300-0500
OBX|15|CWE|11450-4^ProblemList^LN|5|K2970^Gastritis, unspecified, without bleeding^I10|||||F||201706071300-0500
OBX[16]CWE[11450-4^ProblemList^LN[6]104931000119100^Chronic kidney disease due to hypertension (disorder)^SCT[|||||F|||201706071300-
OBX117ICWEI11450-4^ProblemList^LNI7I13644009^Hypercholesterolemia (disorder)^SCTIIIIIIFIII201706071300-0500
DG1|1||J10.1^Influenza due to other identified influenza virus with other respiratory manifestations^110||201706071300-0500|A
```

Step 2: Discharge Trigger: ADT A03

After admission the patient is treated for influenza and, over the course of the next 7 days, begins to recover from the respiratory complications of his influenza. After laboratory testing the physicians confirm that the patient was suffering from the H1N1 strain of influenza, possibly accounting for its severe manifestations. On June 15, 2017 at 3:45 pm the patient is discharged from the hospital to his home with a final discharge diagnosis of ICD-10-CM J09X9 (INFLUENZA DUE TO IDENTIFIED NOVEL INFLUENZA A VIRUS WITH OTHER MANIFESTATIONS). The final discharge message is ready 3 days after discharge.

At 2:15 pm on June 18, 2017, the hospital's electronic health record module for syndromic surveillance data assembles and transmits a Discharge message about this visit to the state health department.

Example Message - Step 2, Case 4:

MSH|^~\&||GreaterNorthMedCtr^4356012945^NPI|||20170618141500-0500||ADT^A03^ADT_A03|NIST-SS-

001.12|P|2.5.1|||AL||||||PH_SS-Ack^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVN|A03|20170615154500-0500|||||GreaterNorthMedCtr^4356012945^NPI

PID|1||123451247^^^GreaterNorthMedCtr&4356012945&NPI^MR||~^^^^^S||19280204|M||2054-5^Black or African

American^CDCREC|^^Billings^MT^59101^^^^30111|||||||||2186-5^Not Hispanic or Latino^CDCREC

PV1|1|I|1069-

DG1|1||J10.1^Influenza due to other identified influenza virus with other respiratory manifestations^I10||201706151534-0500|F

OBX|1|CWE|56816-2^HospitalUnit^LN||1069-4^InpatientPulmonaryWard^HSLOC||||||F|||201706071300-0500

OBX|2|NM|21612-7^Age-Reported^LN||86|a^year^UCUM|||||F|||201706071300-0500

OBX|3|TX|8661-1^ChiefComplaint^LN||fever, chills and body aches; worsening shortness of breath||||||F|||201706071300-0500

Case 5 - Ambulatory Care Visit

Case Study 5 provides an example of a routine patient visit in an ambulatory care clinical setting. The patient's chief complaint is captured as an unstructured, free-text value using the patient's own words. ADT A04 and A03 messages are generated and sent to the PHA about this visit.

Step 1: Registration Trigger - ADT A04

A 25-year-old female walks into Midtown Obstetric Clinic on August 17, 2017 at 1:00 pm. The patient arrival is noted in the registration/appointment system by a clerical assistant who verifies the patient's demographics and appointment information. She has previously given her race as white and black and ethnic group as non-Hispanic, which is captured with the demographic information in the EHR.

At 1:05 PM on August 17, 2017, the facility's electronic health record module for syndromic surveillance data assembles and transmits a Registration/Patient Arrival message to Big City Health Department about this visit.

Example Message - Step 1, Case 5:

MSH|^~\&||MidTwnObstetricCl^2231231234^NPI|||20170817130500-0500||ADT^A04^ADT_A01|NIST-SS-

001.14|P|2.5.1|||AL||||||PH_SS-Ack^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVN|A04|20170817130500-0500|||||MidTwnObstetricCl^2231231234^NPI

PID|1||233222^^^MidTwnObstetricCl&2231231234&NPI^MR||~^^^^^\$||19890312|F||2106-3^White^CDCREC~2054-5^BLACK OR AFRICAN AMERICAN^CDCREC|^^Atlanta^13^30303^^13121|||||||||||||2186-5^Not Hispanic or Latino^CDCREC PV1|1|O|1117-

OBX|1|CWE|SS003^FACILITY/VISIT TYPE^PHINQUESTION||261QP2300X^Primary Care^HCPT|||||F|||201708171300-0500

OBX|2|NM|21612-7^Age-Reported^LN||25|a^year^UCUM|||||F|||201708171300-0500

OBX|3|TX|8661-1^ChiefComplaint^LN||Routine obstetric appointment but may have a cold and is concerned||||||F|||201708171300-0500

OBX|4|CWE|11449-6^PregnancyStatus^LN||Y^Yes^HL70136|||||F|||201708171300-0500

OBX|5|NM|39156-5^BM|^LN||28|kg/m2^kilogram / (meter squared)^UCUM||||F||201708171300-0500

OBX|6|CWE|11450-4^ProblemList-Reported^LN||N390^Urinary tract infection, site not specified^I10|||||F|||201401270000

OBX/7|TX|10160-6^MedicationUse^LN||Estrogen therapy (Estradiol) Antianxiety treatment (Serzone,

Wellbutrin)|||||F|||201708171300-0500

Step 2: Discharge Trigger: ADT A03

After the patient is seen for her routine visit, a discharge message is created which includes the diagnosis and procedure codes from the billing face sheet. The final discharge message is ready immediately when the patient checks out.

At 2:45 PM on August 17, 2017, the facility's electronic health record module for syndromic surveillance data assembles and transmits a Discharge/Visit End message to Big City Health Department about this visit.

Example Message - Step 2, Case 5:

MSH|^~\&||MidTwnObstetricCl^2231231234^NPI|||20170817144500-0500||ADT^A03^ADT_A03|NIST-SS-

001.12|P|2.5.1|||AL||||||PH_SS-Ack^SS Sender^2.16.840.1.114222.4.10.3^ISO

EVNIA03|20170817144500-0500|||||MidTwnObstetricCl^2231231234^NPI

PID|1||233222^^^MidTwnObstetricCl&2231231234&NPI^MR||~^^^^^S||19890607|F||2106-3^White^CDCREC~2054-5^BLACK OR AFRICAN AMERICAN^CDCREC|^^Atlanta^13^30303^^13121||||||||||||2186-5^Not Hispanic or Latino^CDCREC PV1|1|O|1117-

DG1|1||Z34.9^Encounter for supervision of normal pregnancy, unspecified^110||20170817144500-0500|F

OBX|1|CWE|SS003^FACILITY/VISIT TYPE^PHINQUESTION||261QP2300X^Primary Care^HCPT||||||F|||201708171300-0500

OBX|2|NM|21612-7^Age-Reported^LN||25|a^year^UCUM|||||F|||201708171300-0500

OBX|3|TX|8661-1^Chief complaint^LN||Routine obstetric appointment but may have a cold and is concerned||||||F|||201708171300-0500

OBX|4|CWE|11449-6^Pregnancy Status^LN||Y^Yes^HL70136|||||F|||201708171300-0500

OBX|5|NM|39156-5^BMI^LN||28|kg/m2^kilogram / (meter squared)^UCUM||||F|||201708171300-0500

OBX|6|CWE|11450-4^ProblemListReported^LN||N390^Urinary tract infection, site not specified^I10|||||F|||201401270000

OBX|7|CWE|8677-7^MedicationUseReported^LN||749856^Estradiol 1 MG / noregestimate 0.09 MG

OralTablet^RXNORM~151679^Serzone^RXNORM~42568^Wellbutrin^RXNORM~431722^12 HR Tramadol 100 MG Extended Release Tablet^RXNORM||||||F|||20170817144500-0500

Case 6: Batch Messaging Example

Case Study 6 presents an example of batch messaging.

Mid-Co Health Center sends their syndromic data to their state public health authority. Mid-Co sends the messages that have gathered over the last 12-hour period in batch message format. There are 240 messages.

Example Batch Message - Case 6

FHS|^~\&|ER1|MICO_HLTH_CTR^9876543210^NPI|SS_APP^2.16.840.1.113883.19.3.2.1^ISO|SPH^2.16.840.1.113883.19.3.2^ISO|20110123120000-0500

BHS|^~\&|ER1|MICO_HLTH_CTR^9876543210^NPI|SS_APP^2.16.840.1.113883.19.3.2.1^ISO|SPH^2.16.840.1.113883.19.3.2^ISO|20110123120000-0500

MSH|^~\&|ER1|MICO_HLTH_CTR^9876543210^NPI|SS_APP^2.16.840.1.113883.19.3.2.1^ISO|SPH^2.16.840.1.113883.19.3.2^ISO|20110123003938-0500||ADT^A01^ADT_A01|ER1-20110123-001|P|2.5.1

.
.(Last segment of 1st message)
(Continue to append subsequent messages ...)

.
.
.MSH|^~\&|ER1|MICO_HLTH_CTR^9876543210^NPI|SS_APP^2.16.840.1.113883.19.3.2.1^ISO|SPH^2.16.840.1.113883.19.3.2^ISO|20110123115826-0500||ADT^A01^ADT_A01|ER1-20110123-240|P|2.5.1

20110123115826-0500||ADT^A01^ADT_A01|ER1-20110123-240|P|2.5.1 (Last segment of 240th message)

BTS|240|MiCo reporting 1-23-2011: 0000-1200 hrs FTS|1

Case 7: Sample International Address Formats

Mexico

Super Manzana 3 - 403 [street name + building number - apartment number] Puerto Juarez [village] 77520 CANCUN, Q. ROO [postcode + locality name, province abbreviation MEXICO [country name]

Example PID Segment - Mexico Address, Case 7:

PID|1||MX01059711||~^^^^^S|||M|||Super Manzana 3 - 403^Puerto Juarez^CANCUN^Q. ROO^77520^MEX

Canada

111 FAIRFORD STREET EAST MOOSE JAW SK S6H 2X1 CANADA

Example PID Segment - Canada Address, Case 7:

2.6 A08 message triggers

	8 MESSAGE TRI			1-		
DATA ELEMENT NAME		SENDER USAGE	RCVR USAGE	CARDINALITY	RECOMMENDED HL7 LOCATION	TRIGGERS AN A08 TRANSACTION
Facility Identifier (Treating)	Unique facility identifier where the patient was treated (original provider of the data)	R	R	[11]	EVN-7.2 Event Facility - Facility Identifier	Would not trigger a new A08 - already included with all the ADT messages
•	Name of the treating facility where the patient is treated	RE	0	[01]	EVN-7.1 Event Facility - Facility Name	Would not trigger a new A08 - already included with all the ADT messages
Treating Facility Address	Address of treating facility location (Street address, City, State, ZIP, and County)	RE	0	[01]	OBX Segment with OBX-3 Observation Identifier of SS002 Treating Facility Location (PHINQUESTION) and OBX-2 Value Type of XAD.	Would not trigger a new A08 - already included with all the ADT messages
Facility/Visit type	Type of facility that the patient visited for treatment	R	R	[11]	OBX Segment with OBX-3 Observation Identifier SS003^FACILITY/VISIT TYPE	Yes, if visit type changes during a specific visit
Message (Event) Date/Time	Date and time that the report is created / generated from original source (from treating facility)	R	R	[11]	EVN-2 Event Date/Time	This field is a by-product of the trigger and when it occurred
Unique Physician Identifier	Unique identifier for the physician providing care	0	0	[01]	PV1-7 Attending Doctor	Yes, if physician assignment changes for a specific visit. Specific transactions that would translate to A08: • CHANGE ATTENDING DOCTOR (EVENT A54)
Unique Patient Identifier / Medical Record Number	Unique identifier for the patient or visit	R	R	[1*]	PID-3 Patient Identifier List	Yes, if the Medical Record # or whatever identifier is being used in PID-3 changes for a specific patient. PID-3 Patient Identifier value will be the only means of identifying a patient longitudinally. Potential transactions that would translate to A08:
						MERGE PATIENT

ABLE 2.6: A0	08 MESSAGE TRI	GGERS				
						INFORMATION (EVENT A18) MERGE PERSON INFORMATION (EVENT A30) UPDATE PERSON INFORMATION (EVENT A31) MERGE PATIENT INFORMATION - PATIENT ID ONLY (EVENT A34) CHANGE PATIENT INFORMATION - PATIENT ID & ACCOUNT INFORMATION - PATIENT ID & ACCOUNT NUMBER (EVENT A36) MERGE PERSON PATIENT ID (EVE A39) MERGE PATIENT IDENTIFIER LIST (EVENT A46) CHANGE PATIEN ID (EVENT A47)
Jnique Visit dentifier	Unique identifier for the visit	R	R	[1*]	PV1-19 Visit ID	Yes, if the Visit identifier is changed for a specific visit. Potential transactions that would translate to A08: • CHANGE AN OUTPATIENT TO AN INPATIENT (EVENT A06) • CHANGE AN INPATIENT TO AN OUTPATIENT (EVENT A07) • MERGE PATIENT (EVENT A07) • MERGE PATIENT INFORMATION (EVENT A18) • MERGE PERSON INFORMATION (EVENT A30) • UPDATE PERSON INFORMATION

TABLE 2.6: A0	8 MESSAGE TRI	GGERS				
						 MERGE PATIENT INFORMATION - ACCOUNT NUMBER ONLY (EVENT A35) MERGE PATIENT INFORMATION - PATIENT ID & ACCOUNT NUMBER (EVENT A36) MERGE VISIT - VISIT NUMBER (EVENT A42) MOVE VISIT INFORMATION - VISIT NUMBER (EVENT A45)
	Numeric value of patient age at time of visit	RE	RE	[01]	OBX Segment with OBX-3 Observation Identifier of 21612-7 AGE - REPORTED (LOINC) and OBX-2 Value Type of NM	Yes, when a new 21612-7 AGE REPORTED (LOINC) observation becomes available in the EHR
Gender	Stated gender of patient	RE	RE	[01]	PID-8 Administrative Sex	Yes, when PID-8 is added or updated
Race	Race of patient	RE	RE	[0*]	PID-10 Race	Yes, when PID-10 is added or updated
Ethnicity	Ethnicity of patient	RE	RE	[0*]	PID-22 Ethnicity	Yes, when PID-22 is added or updated
Patient City/Town	City or town of patient residence	RE	RE	[01]	PID-11.3 Patient Address City	Yes, when PID-11.3 is added or updated
Patient ZIP Code	ZIP Code of patient residence	RE	RE	[01]	PID-11.5 Patient Address Postal Code	Yes, when PID-11.5 is added or updated
Patient County	County of patient residence	RE	RE	[01]	PID-11.9 Patient Address County	Yes, when PID-11.9 is added or updated
Patient State	State of patient residence	RE	0	[01]	PID-11.4 Patient Address State	Yes, when PID-11.4 is added or updated
Patient Country	Country of patient residence	RE	0	[01]	PID-11.6 Patient Address Country	Yes, when PID-11.6 is added or updated
Chief Complaint / Reason for Visit	Patient's self- reported chief complaint or reason for visit	RE	RE	[0*]	OBX Segment with OBX-3 Observation Identifier of 8661-1 Chief Complaint - Reported (LOINC) of TX. Free text chief complaint is entered as OBX-5 Observation Value.	Yes, when a new 8661-1 Chief Complaint - Reported (LOINC) observation becomes available in the EHR
Reason	Short description of the provider's reason for admitting the patient	RE	RE	[01]	PV2-3 Admit Reason	Yes, if PV2-3 Admit or Visit Reason value changes
Admit or Visit	Date and Time of	R	R	[11]	PV1-44 Admit Date	Yes, if PV1-44 Admit or Visit

Date / Time	visit or admission					Date/Time changes
Date of onset	Date that the patient began having symptoms of condition being reported	0	0	[01]	OBX Segment with OBX-3 Observation Identifier 11368-8 Illness or Injury Onset Date (LOINC) and OBX-2 Value Type of TS	Yes, when a new 11368-8 Illness or Injury Onset Date (LOINC) observation becomes available in the EHR
Patient Class	Patient classification within facility	R	R	[11]	PV1-2 Patient Class	Yes, if PV1-2 Patient Class value changes
Admission Type	This field indicates the circumstances under which the patient was or will be admitted	0	0	[01]	PV1-4 Admission Type	Yes, if PV1-4 Admission Type value is added or updated
Admit Source	This field indicates where the patient was admitted	0	0	[01]	PV1-14 Admit Source	Yes, if PV1-14 Admit Source value is added or updated
Hospital Unit	Hospital unit where patient is at the time the message is sent (admission and discharge)	RE	RE	[01]	OBX Segment with OBX-3 Observation Identifier of 56816-2 Patient Location (LOINC) and OBX-2 Value Type of CWE	Yes, if PV1-3 Assigned Patient Location value is added or updated
Previous Hospital Unit	Hospital unit where patient was prior to the current transaction	0	RE	[01]	PV1-6 Prior Patient Location	No
Diagnosis Type	Qualifier for Diagnosis / Injury Code specifying type of diagnosis	RE	RE	[0*]	DG1-6 Diagnosis Type	Yes, any time diagnosis information is updated, the DG1 requires an Admitting, Working or Final designation in DG1-6 Diagnosis Type
Primary Diagnosis / Additional Diagnosis	Primary diagnosis of the patient's condition. Additional diagnoses of the patient's condition(s)	RE	RE	[0*]	DG1-3 Diagnosis Code	Yes, any time diagnosis information is added or updated, such as in BAR/ACK - UPDATE DIAGNOSIS/PROCEDURE (EVENT P12)
Discharge Disposition	Patient's anticipated location or status following discharge	RE (A03 only)	RE	[01]	PV1-36 Discharge Disposition	Required element for the A03 Discharge Transaction but it is allowable in an A08 if PV1-36 is updated

Discharge or	Date and time of	RE (A03	RE	[01]	PV1-45 Discharge	Required element for the A03
Disposition Date/Time	discharge	only)		[cm.]	Date/Tim	Discharge Transaction but it is allowable in an A08 if PV145 is updated
Procedure Code	Procedures administered to the patient	0	0	[01]	PR1-3 Procedure Code	Yes, any time procedure information is added or updated, such as in BAR/ACK - UPDATE DIAGNOSIS/PROCEDURE (EVENT P12)
Triage Notes	Triage notes for the patient visit	0	0	[01]	OBX Segment with OBX-3 Observation Identifier 54094-8 Emergency Department Triage Notes (LOINC) and OBX-2 Value Type of TX to allow free text input only in OBX-5 Observation Value.	Yes, when a new 54094-8 Emergency Department Triage Notes (LOINC) observation becomes available in the EHR
Clinical Impression	Clinical impression (free text) of the diagnosis	0	0	[01]	OBX Segment with OBX-3 Observation Identifier 44833-2 Preliminary Diagnosis (LOINC) and OBX-2 Value Type of TX to allow free text input only in OBX-5 Observation Value.	Yes, when a new 44833-2 Preliminary Diagnosis (LOINC) observation becomes available in the EHR
Height	Height of the patient	RE	0	[01]	OBX Segment with OBX-3 Observation Identifier 8302-2 Body Height (LOINC) and OBX-2 Value Type of NM.	Yes, when a new 8302-2 Body Height (LOINC) observation becomes available in the EHR (but not every time height is entered)
Weight	Weight of the patient	RE	0	[01]	OBX Segment with OBX-3 Observation Identifier 3141-9 Body Weight Measured (LOINC) and OBX-2 Value Type of NM.	Yes, when a 3141-9 Body Weight Measured (LOINC) observation becomes available in the EHR (but not every time a weight is entered)
BMI	Body Mass Index	0	0	[01]	OBX Segment with OBX-3 Observation Identifier 39156-5 Body Mass Index (LOINC) and OBX-2 Value Type of NM.	Yes, when 39156-5 Body Mass Index (LOINC) observation becomes available in the EHR
Systolic and Diastolic Blood Pressure (SBP/DBP) - Most recent	Most recent Systolic and Diastolic Blood Pressure of the patient.	0	0	[01]	Blood Pressure is communicated using 2 different data elements for Systolic and Diastolic Blood Pressure.	Only if a 8480-6 BP Systolic (LOINC) and/or 8462-4 BP Diastolic (LOINC) observation becomes available in the EHR (expecting at least one set per visit)
Initial Temperature	Initial temperature of the patient	0	0	[01]	OBX Segment with OBX-3 Observation Identifier 11289-6 Body temperature: Temp:Enctrfirst (LOINC)	Yes, when a 11289-6 Body Temperature Initial (LOINC) observation becomes available in the EHR

					and OBX-2 Value Type of NM.	
Initial Pulse Oximetry	1st recorded pulse oximetry value	0	0	[01]	OBX Segment with OBX-3 Observation Identifier 59408-5 OXYGEN SATURATION IN ARTERIAL BLOOD BY PULSE OXIMETRY (LOINC) and OBX-2 Value Type of NM.	Yes, when a 59408-5 Initial Pulse Oximetry (LOINC) observation becomes available in the EHR
Smoking Status	Smoking status of patient	RE	0	[01]	Observation Identifier	Yes, when a 72166-2 Tobacco Smoking Status (LOINC) observation becomes available in the EHR
Initial Acuity	Assessment of the intensity of medical care the patient requires.	0	0	[01]	OBX Segment with OBX-3 Observation Identifier 11283-9 Initial Acuity (LOINC) and OBX-2 Value Type of CWE.	Yes, when a 11283-9 Initial Acuity (LOINC) observation becomes available in the EHR
Insurance Coverage	Health insurance coverage of the patient	0	0	[0*]	IN1-15 Insurance Plan ID	Yes, when Insurance Plan information changes, which may be occurring in other message types such as: BAR/ACK - ADD PATIENT ACCOUNT (EVENT P01) DFT/ACK - POST DETAIL FINANCIAL TRANSACTIONS (EVENT P03) BAR/ACK - UPDATE ACCOUNT (EVENT P05) DFT/ACK - POST DETAIL FINANCIAL TRANSACTIONS - EXPANDED (EVENT P11)

3 MESSAGE INFRASTRUCTURE

3.1 Conformance Profiles

3.1.1 ADT^A01^ADT_A01 - PH_SS-A01-ACK - MESSAGE

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A01	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	0
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A01	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional Information	[01]	RE
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
OBX	OBX_SS	Observation/Result	[1*]	R
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
[BEGIN PROCEDURE GROUP	[0*]	0
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
]		END PROCEDURE GROUP		
GT1	GT1	Guarantor	[0*]	0
		BEGIN INSURANCE GROUP	[0*]	0
IN1	IN1_SS	Insurance	[11]	R
IN2	IN2	Insurance Additional Information	[01]	0
IN3	IN3	Insurance Additional Information, Certification	[0*]	0
ROL	ROL	Role	[0*]	0
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
UB1	UB1	UB82	[01]	0
UB2	UB2	UB92 Data	[01]	0

Segment	Flavor	Element name	Cardinality	Usage
PDA	PDA	Patient Death and Autopsy	[01]	0

Message:

ID	Description
AckType_1681377	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A01^ADT_A01	The value of MSH.9.2 (Trigger Event) SHALL be 'A01'.
ADT^A01^ADT_A01	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-Ack_2960116	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.1.2 ADT^A03^ADT_A03 - PH_SS-A03-ACK - MESSAGE

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A04_A08_A03	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	0
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A03	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional Information	[01]	RE
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
[BEGIN PROCEDURE GROUP	[0*]	О
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
]		END PROCEDURE GROUP		
OBX	OBX_SS	Observation/Result	[1*]	R
GT1	GT1	Guarantor	[0*]	0
[BEGIN INSURANCE GROUP	[0*]	0
IN1	IN1_SS	Insurance	[11]	R

Segment	Flavor	Element name	Cardinality	Usage
IN2	IN2	Insurance Additional Information	[01]	0
IN3	IN3	Insurance Additional Information, Certification	[0*]	0
ROL	ROL	Role	[0*]	0
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
PDA	PDA	Patient Death and Autopsy	[01]	0

Message:

<u> </u>	
ID	Description
AckType_4351259	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A03^ADT_A03	The value of MSH.9.2 (Trigger Event) SHALL be 'A03'.
ADT^A03^ADT_A03	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A03'.
PH_SS-Ack_7346782	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.1.3 ADT^A04^ADT_A01 - PH_SS-A04-ACK - MESSAGE

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A04_A08_A03	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	0
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A04	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional Information	[01]	RE
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
OBX	OBX_SS	Observation/Result	[1*]	R
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
[BEGIN PROCEDURE GROUP	[0*]	0

Segment	Flavor	Element name	Cardinality	Usage
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
]		END PROCEDURE GROUP		
GT1	GT1	Guarantor	[0*]	0
[BEGIN INSURANCE GROUP	[0*]	0
IN1	IN1_SS	Insurance	[11]	R
IN2	IN2	Insurance Additional Information	[01]	0
IN3	IN3	Insurance Additional Information, Certification	[0*]	0
ROL	ROL	Role	[0*]	0
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
UB1	UB1	UB82	[01]	0
UB2	UB2	UB92 Data	[01]	0
PDA	PDA	Patient Death and Autopsy	[01]	0

Message:

ID	Description
AckType_8067053	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A04^ADT_A01	The value of MSH.9.2 (Trigger Event) SHALL be 'A04'.
ADT^A04^ADT_A01	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-Ack_9140116	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.1.4 ADT^A08^ADT_A01 - PH_SS-A08-ACK - MESSAGE

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A04_A08_A03	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	0
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A08	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional	[01]	RE

Segment	Flavor	Element name	Cardinality	Usage
		Information		
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
OBX	OBX_SS	Observation/Result	[1*]	R
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
[BEGIN PROCEDURE GROUP	[0*]	0
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
]		END PROCEDURE GROUP		
GT1	GT1	Guarantor	[0*]	0
[BEGIN INSURANCE GROUP	[0*]	0
IN1	IN1_SS	Insurance	[11]	R
IN2	IN2	Insurance Additional Information	[01]	0
IN3	IN3	Insurance Additional Information, Certification	[0*]	0
ROL	ROL	Role	[0*]	0
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
UB1	UB1	UB82	[01]	0
UB2	UB2	UB92 Data	[01]	0
PDA	PDA	Patient Death and Autopsy	[01]	0

Message:

ID	Description
AckType_5113288	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A08^ADT_A01	The value of MSH.9.2 (Trigger Event) SHALL be 'A08'.
ADT^A08^ADT_A01	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-Ack_1802444	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.1.5 ADT^A01^ADT_A01 - PH_SS-A01-NOACK - MESSAGE

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0

Segment	Flavor	Element name	Cardinality	Usage
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A01	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	0
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A01	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional Information	[01]	RE
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
OBX	OBX_SS	Observation/Result	[1*]	R
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
		BEGIN PROCEDURE GROUP	[0*]	0
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
]		END PROCEDURE GROUP		
GT1	GT1	Guarantor	[0*]	0
		BEGIN INSURANCE GROUP	[0*]	0
IN1	IN1_SS	Insurance	[11]	R
IN2	IN2	Insurance Additional Information	[01]	0
IN3	IN3	Insurance Additional Information, Certification	[0*]	0
ROL	ROL	Role	[0*]	0
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
UB1	UB1	UB82	[01]	0
UB2	UB2	UB92 Data	[01]	0
PDA	PDA	Patient Death and Autopsy	[01]	0

Message:

ID	Description
AckType_4019587	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.
ADT^A01^ADT_A01noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A01'.
ADT^A01^ADT_A01noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-NoAck_7367878	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.1.6 ADT^A03^ADT_A03 - PH_SS-A03-NOACK - MESSAGE

Conformance Profile Definition

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A04_A08_A03	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	О
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A03	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional Information	[01]	RE
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
[BEGIN PROCEDURE GROUP	[0*]	0
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
		END PROCEDURE GROUP		
OBX	OBX_SS	Observation/Result	[1*]	R
GT1	GT1	Guarantor	[0*]	0
[BEGIN INSURANCE GROUP	[0*]	0
IN1	IN1_SS	Insurance	[11]	R
IN2	IN2	Insurance Additional Information	[01]	0
IN3	IN3	Insurance Additional Information, Certification	[0*]	0
ROL	ROL	Role	[0*]	0
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
PDA	PDA	Patient Death and Autopsy	[01]	0

Conformance Statements Message:

ID	Description
AckType_6780947	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.
ADT_A03^ADT_A03noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A03'.
ADT_A03^ADT_A03noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A03'.
PH_SS-NoAck_6545561	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.1.7 ADT^A04^ADT_A01 - PH_SS-A04-NOACK - MESSAGE

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A04_A08_A03	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	0
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A04	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional Information	[01]	RE
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
OBX	OBX_SS	Observation/Result	[1*]	R
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
[BEGIN PROCEDURE GROUP	[0*]	О
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
]		END PROCEDURE GROUP		
GT1	GT1	Guarantor	[0*]	0
[BEGIN INSURANCE GROUP	[0*]	0
IN1	IN1_SS	Insurance	[11]	R
IN2	IN2	Insurance Additional Information	[01]	0
IN3	IN3	Insurance Additional Information, Certification	[0*]	0
ROL	ROL	Role	[0*]	0

Segment	Flavor	Element name	Cardinality	Usage
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
UB1	UB1	UB82	[01]	0
UB2	UB2	UB92 Data	[01]	0
PDA	PDA	Patient Death and Autopsy	[01]	0

Message:

ID	Description
AckType_9793992	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.
ADT^A04^ADT_A01noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A04'.
ADT^A04^ADT_A01noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-NoAck_1252103	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.1.8 ADT^A08^ADT_A01 - PH_SS-A08-NOACK - MESSAGE

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
EVN	EVN_SS	Event Type	[11]	R
PID	PID_SS_A04_A08_A03	Patient Identification	[11]	R
PD1	PD1	Patient Additional Demographic	[01]	0
ROL	ROL	Role	[0*]	0
NK1	NK1	Next of Kin / Associated Parties	[0*]	0
PV1	PV1_SS_A08	Patient Visit	[11]	R
PV2	PV2_SS	Patient Visit - Additional Information	[01]	RE
ROL	ROL	Role	[0*]	0
DB1	DB1	Disability	[0*]	0
OBX	OBX_SS	Observation/Result	[1*]	R
AL1	AL1	Patient Allergy Information	[0*]	0
DG1	DG1_SS	Diagnosis	[0*]	RE
DRG	DRG	Diagnosis Related Group	[01]	0
[BEGIN PROCEDURE GROUP	[0*]	0
PR1	PR1_SS	Procedures	[11]	R
ROL	ROL	Role	[0*]	0
]		END PROCEDURE GROUP		

Segment	Flavor	Element name	Cardinality	Usage
GT1	GT1	Guarantor	[0*]	0
[BEGIN INSURANCE GROUP	[0*]	О
IN1	IN1_SS	Insurance	[11]	R
IN2	IN2	Insurance Additional Information	[01]	О
IN3	IN3	Insurance Additional Information, Certification	[0*]	О
ROL	ROL	Role	[0*]	0
]		END INSURANCE GROUP		
ACC	ACC	Accident	[01]	0
UB1	UB1	UB82	[01]	0
UB2	UB2	UB92 Data	[01]	0
PDA	PDA	Patient Death and Autopsy	[01]	0

Message:

ID	Description
AckType_926248	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.
ADT^A08^ADT_A01noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A08'.
ADT^A08^ADT_A01noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-NoAck_5023083	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.1.9 ACK^(A01/A03/A04/A08)^ACK - DEFAULT - ACKMSG

Conformance Profile Definition

Segment	Flavor	Element name	Cardinality	Usage
MSH	MSH_SS_ACK	Message Header	[11]	R
SFT	SFT	Software Segment	[0*]	0
MSA	MSA_SS	Message Acknowledgment	[11]	R
ERR	ERR	Error	[0*]	0

3.2 <u>Segments and Field Descriptions</u>

3.2.1 <u>DG1_SS - DIAGNOSIS</u>

The DG1 segment contains patient diagnosis information of various types. Syndromic surveillance supports Admitting, Working and Final Diagnosis types.

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
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Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
1	Set ID - DG1	SI	R	[11]	[04]	
3	DG1	CE_SS_NoAltCodes	R	[11]		PHVS_AdministrativeDiagnosis_CDC_ICD- 10CM,PHVS_Disease_CDC
			R	[11]		
	Diagnosis Type		R	[11]	[02]	PHVS_DiagnosisType_HL7_2x
15	Diagnosis Priority	ID	0	[01]	[02]	PHVS_DiagnosisPriority_HL7_2x

ID	Description
DG1_SS_5972520	The value of DG1-6 SHALL be one of list values: A,W,F.
DG1_SS_8603629	The value of DG1-3.3 SHALL be one of list values: I10,SCT.

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Location	Code	Single Code System
DG1_SS-2	0053	Diagnosis Coding Method	R			
DG1_SS-3	PHVS_AdministrativeDiagnosis_CDC_ICD-10CM	Diagnosis (ICD-10 CM)	R	1		
DG1_SS-3	PHVS_Disease_CDC	Disease	R	1		
DG1_SS-6	PHVS_DiagnosisType_HL7_2x	Diagnosis Type (HL7)	R			
DG1_SS- 15		Diagnosis Priority (HL7)	R			

Note: If possible the first DG1 should contain the primary diagnosis since not all EHRs implement DG1-15, diagnosis priority.

Example segments:

• DG1|1||R11^NAUSEA AND VOMITING^I10|||W (Working diagnosis from ICD10)

DG1|2||16932000^NAUSEA AND VOMITING^SCT|||W (Working diagnosis from SNOMED-CT)

DG1-6: Diagnosis Type (IS)

N/A FOR AMBULATORY CARE. It is critical to be able to distinguish among the diagnosis types when the syndromic system is receiving messages in real-time. DiagnosisType helps identify the type/status of diagnosis since it may change overtime

3.2.2 EVN_SS - EVENT TYPE

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
1	Event Type Code	ID	0	[01]	[03]	0003
2	Recorded Date/Time	TS_SS_toSecond	R	[11]		
7	Event Facility	HD_SS	R	[11]		

Value Set Bindings

Location	Value Set II)		•	•	Single Code Value	Single Code System
EVN_SS-1	0003	Event type	R			
EVN_SS-5	0188	Operator ID	R			

Example Segment that shows the use of the NPI for the facility identifier:

EVN||201406071300.1234-0500|||||GreaterNorthMedCtr^4356012945^NPI

EVN-2: Recorded Date/Time (TS SS toSecond)

If data flows through an intermediary or third party, the intermediary must keep the original date/time of transmission.

EVN-7: Event Facility (HD_SS)

This field identifies the location where the patient was treated. Use of the organization's legal name associated with the National Provider Identifier (NPI) standard provided by Centers for Medicare and Medicaid Services is recommended. If NPI is not available, use a different unique identifier, such as an OID or a State-designated identifier. This number should be specific for each facility location (not a number representing an umbrella business) It is recommended that National Provider Identifier (NPI) be used for the Facility Identifier. NPI is a 10-digit identifier. Note: The use of 'NPI' should be discussed during the implementation process as local jurisdictions may differ on their use of identifiers for this field.

3.2.3 IN1_SS - INSURANCE

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
1	Sot ID -	SI	R	[11]	[04]	
2	Insurance Plan ID	CE_SS_withAltCodes	R	[11]		0072
3	Insurance Company ID		R	[1*]		
15	Plan Type	IS	0	[01]	[03]	PHVS_SourceOfPaymentTypology_PHDSC

Value Set Bindings

Location	vallie Set III	Value Set Name	Binding Strength	Location	Single Code System
IN1_SS-2	[HH] / /	Insurance Plan ID	R		
IN1_SS-15		Source of Payment Typology (PHDSC)	R		

IN1-2: Insurance Plan ID (CE_SS_withAltCodes)

This field contains a unique identifier for the insurance plan. If an insurance plan ID is unavailable, use |UNK^UNKNOWN^NULLFL| to meet the requirement to populate the field with a CE value type for HL7 compliance.

IN1-3: Insurance Company ID (CX_SS)

This field contains unique identifiers for the insurance company. The assigning authority and identifier type code are strongly recommended for all CX data types. If an insurance company identifier is unavailable, use |UNKNOWN^^^UNKNOWN| to meet the requirement to populate the field as a CX value type for HL7 compliance.

3.2.4 MSA_SS - MESSAGE ACKNOWLEDGMENT

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
	Acknowledgment Code	ID	R	[11]	[02]	PHVS_AcknowledgmentCode_HL7_2x
2	Message Control ID	ST	R	[11]	[0199]	

ID	Description
MSA_SS_5067426	MSH-2 Shall match MSH-10 value of message being acknowledged

Value Set Bindings

	4go								
		Value Set Name	Binding Strength	Binding Location	Single Code Value				
	PHV5_AcknowledgmentCode_HL1_2X	Acknowledgment Code (HL7)	R						
MSA_SS- 6	0357	Message error condition codes	R						

MSA-2: Message Control ID (ST)

This field contains the message control ID of the message sent by the sending system. It allows the sending system to associate this response with the message for which it is intended.

3.2.5 MSH_SS - MESSAGE HEADER

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
1	Field Separator	ST	R	[11]	[01]	
2	Encoding Characters	ST	R	[11]	[04]	
3	Sending Application	HD_SS	0	[01]		0361
4	Sending Facility	HD_SS	R	[11]		0362
5	Receiving Application	HD_SS	0	[01]		0361
6	Receiving Facility	HD_SS	0	[01]		0362
7	Date/Time Of Message	TS_SS_toSecond	R	[11]		
9	Message Type	MSG_SS	R	[11]		
10	Message Control ID	ST	R	[11]	[0199]	
11	Processing ID	PT_SS	R	[11]		
12	Version ID	VID_SS	R	[11]		
15	Accept Acknowledgment Type	ID	R	[11]	[02]	0155
16	Application Acknowledgment Type	ID	RE	[01]	[02]	0155
21	Message Profile Identifier	EI_SS	R	[1*]		

Conformance Statements

ID Description	
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ID	Description
MSH_SS_4549814	The value of MSH-11 SHALL be one of list values: P,D,T.
MSH_SS_4611129	The value of MSH-1 (Field Separator) SHALL be ' '.
MSH_SS_6631423	The value of MSH-21[*].3 SHALL be '2.16.840.1.114222.4.10.3'.
MSH_SS_7071588	The value of MSH-9.1 SHALL be 'ADT'.
MSH_SS_7465888	The value of MSH-2 (Encoding Characters) SHALL be '^~\&'.
MSH_SS_7840690	The value of MSH-21[*].2 SHALL be 'SS Sender'.
MSH_SS_9284050	The value of MSH-21[*].4 SHALL be 'ISO'.
MSH_SS_9983603	The value of MSH-12 (Version ID) SHALL be '2.5.1'.

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Single Code Value	Single Code System
MSH_SS-3	0361	Application	R			
MSH_SS-4	H_SS-4 0362 Facility		R			
MSH_SS-5	MSH_SS-5 0361 Application		R			
MSH_SS-6	0362	Facility	R			
MSH_SS-15	0155	Accept/application acknowledgment conditions	R			
MSH_SS-16 0155 Accept/application acknowledgment conditions		acknowledgment	R			

MSH-1: Field Separator (ST)

This field contains the separator between the segment ID and the first real field, MSH-2-encoding characters. As such, it serves as the separator and defines the character to be used as a separator for the rest of the message.

MSH-2: Encoding Characters (ST)

This field contains the four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator.

MSH-3: Sending Application (HD_SS)

This field uniquely identifies the sending application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise.

MSH-4: Sending Facility (HD_SS)

This field further describes the sending application, MSH-3-sending application. This field uniquely identifies the facility associated with the application that sends the message. If Acknowledgements are in use, this facility will receive any related Acknowledgement message. Use of National Provider Identifier is recommended (10-digit identifier)

MSH-5: Receiving Application (HD_SS)

This field uniquely identifies the receiving application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise.

MSH-6: Receiving Facility (HD_SS)

This field identifies the receiving application among multiple identical instances of the application running on behalf of different organizations.

MSH-7: Date/Time Of Message (TS SS toSecond)

This field contains the date/time that the sending system created the message. If the time zone is specified, it will be used throughout the message as the default time zone.

MSH-10: Message Control ID (ST)

This field contains a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message acknowledgment segment (MSA). Note: This field is a number or other identifier that uniquely identifies the message.

MSH-11: Processing ID (PT SS)

This field is used to decide whether to process the message as defined in HL7 Application (level 7) Processing rules. Note: Indicates how to process the message as defined in HL7 processing rules .

MSH-12: Version ID (VID_SS)

HL7 version number used to interpret format and content of the message. This field is matched by the receiving system to its own version to be sure the message will be interpreted correctly. For this message the value shall be 2.5.1.

MSH-21: Message Profile Identifier (EI SS)

Sites may use this field to assert adherence to, or reference, a message profile. Message profiles contain detailed explanations of grammar, syntax, and usage for a particular message or set of messages.

3.2.6 MSH SS ACK - MESSAGE HEADER

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
1	Field Separator	ST	R	[11]	[01]	
2	Encoding Characters	ST	R	[11]	[04]	
3	Sending Application	HD_SS	0	[01]		0361
4	Sending Facility	HD_SS	R	[11]		0362
5	Receiving Application	HD_SS	0	[01]		0361
6	Receiving Facility	HD_SS	0	[01]		0362
7	Date/Time Of Message	TS_SS_toSecond	R	[11]		
9	Message Type	MSG_SS	R	[11]		
10	Message Control ID	ST	R	[11]	[0199]	
11	Processing ID	PT_SS	R	[11]		
12	Version ID	VID_SS	R	[11]		
15	Accept Acknowledgment Type	ID	0	[01]	[02]	
16	Application Acknowledgment Type	ID	0	[01]	[02]	
21	Message Profile Identifier	EI_SS	R	[1*]		

ID	Description
MSH_SS_4611129	The value of MSH-1 (Field Separator) SHALL be ' '.
MSH_SS_7465888	The value of MSH-2 (Encoding Characters) SHALL be '^~\&'.
MSH_SS_9983603	The value of MSH-12 (Version ID) SHALL be '2.5.1'.
MSH_SS_ACK_1300132	The value of MSH-21[*].1 SHALL be one of list values: PH_SS-Ack,PH_SS-NoAck.
MSH_SS_ACK_2828470	The value of MSH-9.1 SHALL be 'ACK'.
MSH_SS_ACK_5325682	The value of MSH-21[*].4 SHALL be 'ISO'.
MSH_SS_ACK_6464700	The value of MSH-11 SHALL be one of list values: P,D,T.
MSH_SS_ACK_6802085	The value of MSH-9.2 SHALL be one of list values: A01,A03,A04,A08.
MSH_SS_ACK_8564584	The value of MSH-9.3 SHALL be 'ACK'.
MSH_SS_ACK_9102733	The value of MSH-21[*].3 SHALL be '2.16.840.1.114222.4.10.3'.
MSH_SS_ACK_9484104	The value of MSH-21[*].2 SHALL be 'SS Receiver'.

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Single Code	Single Code System
MSH_SS_ACK-3	0361	Application	R			
MSH_SS_ACK-4	0362	Facility	R			

Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Single Code Value	Single Code System
MSH_SS_ACK-5	0361	Application	R			
MSH_SS_ACK-6	0362	Facility	R			

3.2.7 OBX_SS - OBSERVATION/RESULT

Segment Definition

00	gment De					
Se q	Element name	Data type		Cardina lity	Lengt h	Value Set
1	Set ID - OBX	SI	R	[11]	[04]	
2	Value Type			[11]	[03]	PHVS_ValueType_SyndromicSurveillance
3	Observa tion Identifier	CE_SS_withAlt Codes	R	[11]		PHVS_ObservationIdentifier_SyndromicSurveillance,PHVS_ VitalSignResult_HITSP
4	Observa tion Sub-ID		0	[01]	[020]	
5	Observa tion Value	VARIES	RE		[0999 99]	
6	Units	CE_SS_withAlt Codes	C(R/ X)	[01]		
11	Observa tion Result Status	ID	R	[11]	[01]	0085
14	Date/Ti me of the Observa tion	TS_SS_toMinut e	Ο	[01]		

Conformance Statements

ID	Description
OBX_7289447_2355451	The value of OBX-1 (Set ID - OBX) SHALL be valued sequentially starting with the value '1'.

Conditional Predicates

Location	Usage	Description
OBX6	C(R/X)	If the value of OBX-2 (Value Type) is 'NM'.

Co-Constraints

Co-Cor	Constraints					
IF (OBX- 3)	Column	Value				
		THEN				
	OBX-2(Value)	XAD				
	OBX-2(Flavor)	XAD_SS				
	USER					
	Description	Treating Facility Location				
SS002	Usage	RE				
	Example	OBX 1 XAD SS002^TREATING FACILITY LOCATION^PHINQUESTION 1 234 Anywhere Street^^Doraville^13^303 41^USA^C^^13089 F 201102091114				
	If this data element is captured and maintained as part of the facility registration process, it may not be sent with every message. See ISDS recommendations, sec 4.2, on Facility Registration.8 This data can also be accommodated in the Facility Registration process as defined by ISDS.					
		THEN				
	OBX-2(Value)	CWE				
	OBX-2(Flavor)	CWE_SS				
	OBX-5(Value Set)	PHVS_FacilityVisitType_SyndromicSurveillance				
	USER					
SS003	Description	Facility/Visit Type				
	Usage	R				
	Example	OBX 2 CWE SS003^FACILIT Y/VISIT TYPE^PHINQUESTION 261QU0200X^Urgent Care^ HCPTNUCC F 20110 2091114				
	Implementation Notes	Relevant facility/visit type values are defined in value set. This data can also be accommodated in the Facility Registration process as defined by ISDS for facilities where a single facility/visit type is expected.				
		THEN				
		NM				
21612-	OBX-2(Flavor)	NM				
7	OBX-6(Value Set)	PHVS_AgeUnit_SyndromicSurveillance				
		USER				

15							
IF (OBX- 3)	X- Column Value						
	Description	Age					
	Usage	RE					
	Example	For a patient greater than 2 years: OBX 4 NM 21612-7^AGE-REPORTED^LN 43 a^YEAR^UCUM F 20110217 For a patient less than 2 years: OBX 4 NM 21612-7^AGE-REPORTED^LN 5 mo^month^ UCUM F 20110217					
	Implementation Notes	Data providers and receivers should determine specific data restrictions for their jurisdiction. In order for age to be de-identified, age must be rounded to an integer. For patients age greater than or equal to (>=) 2 years old, report in whole years. Unit value should be "Year" • Truncate age to integer. For example, 16.75 years = 16 years old. For patients less					
		than (<) 2 years old: • Report the age in integer months. Do not report days or weeks. • Truncate month to integer. For example, 5 months and 20 days = 5 months old. • Unit value should be "Months" for patients less than (<) 2 years old					
		THEN					
	OBX-2(Value)	CWE					
	OBX-2(Flavor)	CWE_SS					
	OBX-5(Value Set)	PHVS_HealthcareServiceLocation_Syndromic					
FC04C	IIQED						
56816- 2	Description	Patient Service Location					
_	Usage	RE					
	Example	OBX 3 CWE 56816-2^PATIENT LOCATION^LN 1029- 8^Medical/Surgical critical care unit^HSLOC F 20110217					
	Implementation Notes	INPATIENT DATA ELEMENT OF INTEREST ONLY NOTE: this is a standardization of the PV1-3 Assigned Patient Location that will require a mapping to the Healthcare Service Location codes.					
		THEN					
	OBX-2(Value)	NM					
	OBX-2(Flavor)	NM					
	OBX-6(Value Set)	PHVS_HeightUnit_UCUM					
		USER					
8302-2	Description	Height					
	Usage	0					
	Example	OBX 3 NM 8302-2^BODY HEIGHT^LN 69 [in_us]^in ch [length]^UCUM F 20110217					
	Implementation Notes	Allows calculation of Body Mass Index (BMI), which may be an indicator of obesity for chronic disease. Note: If BMI can be calculated within the EHR, then it is preferable to just receive BMI instead of height and weight.					

ir.	Γ						
(OBX- 3)	Column	Value					
		THEN					
	OBX-2(Value)	NM					
	OBX-2(Flavor)	NM					
	OBX-6(Value Set)	PHVS_WeightUnit_UCUM					
		USER					
3141-9	Description	Weight					
	Usage	0					
	Example	BX 3 NM 3141-9^BODY WEIGHT MEASURED^LN 120 [lb_av]^ ound[mass]^UCUM F 20110217					
	Implementation Notes	Allows calculation of Body Mass Index (BMI), which may be an indicator of obesity for chronic disease. Note: If BMI can be calculated within the EHR, then it is preferable to just receive BMI instead of height and weight.					
		THEN					
	OBX-2(Value)	NM					
	OBX-2(Flavor)	NM					
	USER						
39156-	Description	Body mass index (BMI) [Ratio]					
5	Usage	0					
	Example	OBX 3 NM 39156-5^Body Mass Index^LN 35 kg/m2^kilogram / (meter squared)^UCUM F 20110217					
	Implementation Notes	If BMI can be calculated within the EHR, then it is preferable to just receive BMI instead of height and weight					
		THEN					
	OBX-2(Value)	TX					
	OBX-2(Flavor)	TX					
	USER						
	Description	Chief complaint					
	Usage	RE					
8661-1	Example	OBX 3 TX 8661-1^CHIEF COMPLAINT - REPORTED^LN STOMACH ACHE THAT HAS LASTED 2 DAYS; NAUSEA AND VOMITING; MAYBE A FEVER F 201102171 531					
	Implementation Notes	This field is the patient's self-reported chief complaint or reason for visit. It is distinct from the Admit Reason field which is the provider's reason for admitting the patient Senders should send the most complete description of the patient's chief complaint. In some cases, this may entail sending multiple chief complaint values. If both the free text chief complaint text and drop-down selection chief complaint text are available, send both. Some systems may automatically overwrite chief complaint with final diagnosis when the final diagnosis code is assigned. The chief complaint text should NOT be replaced with other information either manually or by the data provider's					

IF (OBX- 3)	Column	Value				
		system. Keep the chief complaint the same as how it was captured at time of admission.				
		THEN				
	OBX-2(Value)	TS				
	OBX-2(Flavor)	TS_SS_toDay				
11368-	, ,	USER				
8	Description	Date of onset				
	Usage	0				
	Example	OBX 7 TS 11368-8^ILLNESS OR INJURY ONSET DATE^LN 20110215 F				
	<u> </u>	THEN				
	OBX-2(Value)	ΙΤΧ				
	OBX-2(Value) OBX-2(Flavor)	TX				
	OBX-2(Flavor)	USER				
	Description					
	Description	Triage Note				
54094-	Usage	RE				
8	Example	OBX 7 TX 54094-8^EMERGENCY DEPARTMENT TRIAGE NOTE^LN Pain a recurrent cramping sensation. F 201102091114				
		ED/UC DATA ELEMENT OF INTEREST ONLY This element is represented by the				
	Implementation Notes	LOINC code: 54094-8 in the OBX observation identifier. Triage Notes should be sent as free text. Triage notes may benefit from additional processing (e.g. negation processing, natural language processing, etc.) in order to maximize the utility of the data.				
		THEN				
	OBX-2(Value)	тх				
	OBX-2(Flavor)	TX				
	OBX Z(Havor)	USER				
44833-	Description	Clinical impression				
2	Usage	O				
	Osage	OBX 1 TX 44833- 2^PRELIMINARY DIAGNOSIS^LN Pain consist with				
	Example	appendicitis F 20 110209111				
	Implementation					
	Notes	Clinical Impressions should be sent as free text.				
	110100	THEN				
	OBX-2(Value)	CWE				
	OBX-2(Flavor)	CWE_SS				
11449- 6	∩RX-5(\/alue	PHVS_YesNoUnknown_CDC				
	•	USER				
	Description	Pregnancy status				
	· · · · · · · · · · · · · · · · · · ·					

IF (OBX- 3)	Column	Value					
	Usage	RE					
	Example	OBX 1 CWE 11449-6 Pregnancy Status ^LN Y^Yes^HL70136 F					
	Implementation Notes	HL70136 if 'yes' or 'no' NULLFL if Unknown					
		THEN					
	OBX-2(Value)	CWE					
	OBX-2(Flavor)	CWE_SS					
		USER					
	Description	Problem list					
	Usage	0					
11450-	Example	OBX 1 CWE 11450- 4^Problem List - Reported^LN N39.0^Urinary tract infection, site not specified^I10 F 20110217					
	Implementation Notes	Rationale: Can provide co-morbidity, pregnancy status, and indications of severity and chronic disease conditions, and medical and surgical histories The Problem List may be derived from the HL7 Message types PPR - Patient Problem Message (Events PC1, PC2, PC3). The patient problem message is used to send problems from one application to another (e.g., a point of care system to a clinical repository). Many of the segments associated with this event are optional. This optionality allows systems in need of this information to set up transactions that fulfill their requirements. Receiving systems may only be interested in active problems.					
		THEN					
	OBX-2(Value)	TX					
	OBX-2(Flavor)	TX					
	USER						
10160-	Description	Medication List - Current medications entered as narrative					
0	Usage	0					
	Example	OBX 1 TX 10160-0^Medication Use Reported^LN Lasix 20 mg po bid, Simvastatin 40 mg po qd F 20110217					
	Implementation Notes	Current medications entered as narrative					
		THEN					
	OBX-2(Value)	CWE					
	OBX-2(Flavor)	CWE_SS					
8677-7	OBX-6(Value Set)	PHVS_MedicationClinicalDrugName_HITSP, PHVS_MedicationBrandName_HITSP					
		USER					
	Description	Medications prescribed or dispensed - Current medications entered as standardized codes					
	Usage	0					

IF (OBX- 3)	- Column Value					
	Example	OBX 7 CWE 8677-7^MedicationsPrescribedOrDispensed^LN 1163466^Levofloxacin 25 MG/ML Oral Solution^RXNORM F 201401021500-0500				
	Implementation Notes	Current medications entered as standardized codes				
		THEN				
	OBX-2(Value)	NM				
	OBX-2(Flavor)	NM				
	OBX-6(Value Set) PHVS_BloodPressureUnit_UCUM					
8480-6		USER				
0 100 0	Description	Systolic blood pressure				
	Usage	0				
	Example	OBX 5 NM 8480- 6^SYSTOLIC BLOOD PRESSURE^LN 120 mm(hg) F 20110217				
	Implementation Notes	Allows monitoring of chronic conditions. Most recent systolic and diastolic blood pressure of the patient. Most recent is the blood pressure taken most closely to the time that message is constructed/assembled.				
		THEN				
	OBX-2(Value) NM					
	OBX-2(Flavor)	NM				
	OBX-6(Value Set)	PHVS_BloodPressureUnit_UCUM				
8462-4	USER					
0402-4	Description	Diastolic blood pressure				
	Usage	0				
	Example	OBX 6 NM 8462- 4^DIASTOLIC BLOOD PRESSURE^LN 90 mm(hg) F				
	Implementation Notes	Allows monitoring of chronic conditions. Most recent systolic and diastolic blood pressure of the patient. Most recent is the blood pressure taken most closely to the time that message is constructed/assembled.				
		THEN				
	OBX-2(Value)	NM				
	OBX-2(Flavor)	NM				
11289-	OBX-6(Value Set)	PHVS_TemperatureUnit_UCUM				
6		USER				
	Description	Initial temperature				
	Usage	0				
	Example	OBX 3 NM 11289-6^BODY TEMPERATURE^LN 100.1 [degF]^FARENHEIT^UCUM F 20110217				
59408-	408- THEN					

IF (OBX- 3)	Column	Value			
5	OBX-2(Value)	NM			
	OBX-2(Flavor)	NM			
	OBX-6(Value Set)	PHVS_PulseOximetryUnit_UCUM			
		USER			
	Description	Initial pulse oximetry			
	Usage	0			
	Example	OBX 4 NM 59408-5^OXYGENSATURATION IN ARTERIALBLOOD BY PULSEOXIMETRY^LN 91 %^PERCENT^UCUM A F 20110217145139			
		THEN			
	OBX-2(Value)	CWE			
	OBX-2(Flavor)	CWE_SS			
	OBX-5(Value Set)	PHVS_SmokingStatus_MU			
72166-		USER			
2	Description	Smoking status			
	Usage	RE			
	Example	OBX 1 CWE 72166-2^TOBACCO SMOKINGSTATUS^LN 428071000124 103			
	Implementation Notes	This data element is a Meaningful Use requirement. Allows monitoring of chronic conditions.			
		THEN			
	OBX-2(Value)	CWE			
	OBX-2(Flavor)	CWE_SS			
11283-	OBX-5(Value Set)	PHVS_EmergencySeverityIndexAcuity_CDC			
9		USER			
	Description	Initial acuity			
	Usage	0			
	Example	OBX 1 CWE 11283- 9^INITIALACUITY^LN 1^Resuscitation^CDCEDACUITY F 201708022345-0500			
		THEN			
	OBX-2(Value)	TX			
10182-	OBX-2(Flavor)	TX			
4		USER			
	Description	Travel history			
	Usage	RE			
	Example	OBX 1 TX 10182-4^History of travel Narrative^LN Arrived home from Liberia two days			

	F (OBX- 3)	Column	Value
ı			ago. F 20110217
		•	Some jurisdictions have found it useful to put "YES" or "NO" at the beginning of this field, followed by the travel location if yes.

Value Set Bindings

	Value Set ID	Value Set Name	_	Binding Location	Code	Single Code System
OBX_SS- 2	PHVS_ValueType_SyndromicSurveillance	Value Type (Syndromic Surveillance)	R			
OBX_SS- 3	PHVS_ObservationIdentifier_SyndromicSurveillance	Observation Identifier (Syndromic Surveillance)	R	1		
	_ 5 _	Vital Sign Result Value Set	R	1		
OBX_SS- 8	0078	Abnormal flags	R			
OBX_SS- 10		Nature of Abnormal Testing	R			
OBX_SS- 11		Observation result status codes interpretation	R			

OBX-1: Set ID - OBX (SI)

This field contains the sequence number. Set ID numbers the repetitions of the segments.

OBX-11: Observation Result Status (ID)

This field contains the observation result status. This field reflects the current completion status of the results for one Observation Identifier.

OBX-14: Date/Time of the Observation (TS_SS_toMinute)

This field is the observation date/time which is physiologically relevant or the closest approximation.

3.2.8 PID_SS_A01 - PATIENT IDENTIFICATION

Segment Definition

<u>oog</u>	ginent Definition							
Sea	Element name	Data type	Usage	Cardinality	Length	Value Set		
1	Set ID - PID	SI	R	[11]	[04]			
ľΧ	Patient Identifier List	CX_SS	R	[1*]				
5	Patient Name	XPN_SS	R	[22]				
/	BIRN	TS_SS_toDay	0	[01]				
8	Administrative Sex	IS	RE	[01]	[01]	PHVS_Gender_SyndromicSurveillance		
10	Race	CE_SS_withAltCodes	RE	[0*]		PHVS_RaceCategory_CDC		
111	Patient Address	XAD_SS	RE	[01]				
18	Patient Account Number	CX_SS	0	[01]				
22	Ethnic Group	CE_SS_withAltCodes	RE	[0*]		PHVS_EthnicityGroup_CDC		
33	Last Update Date/Time	TS_SS_toMinute	0	[01]				
34	Last Update Facility	HD_SS	0	[01]				

Conformance Statements

ID	Description
	If the patient's legal name is not sent, the value of PID-5[*] (Patient Name) SHALL be one of list values: ~^^^^^S , ~^^^^^U

Value Set Bindings

Location	Value Set III		_	Location	Single Code System
PID_SS_A01-8	PHVS_Gender_SyndromicSurveillance	Gender (Syndromic Surveillance)	R		
PID_SS_A01- 10	PHVS RaceCategory CDC	Race Category	R		

Location	Value Set II)	Value Set Name	Binding Strength	Binding Location	Single Code Value	
PID_SS_A01- 22	IPHVS EthnicityGroup CDC	Ethnicity group	R			

Example PID Segment that shows a Hispanic white female patient. The deceased indicator and date fields are used. Patient address is described as the mailing address, with 13 as the FIPS numeric for Georgia.

PID|1||2222^^^GreaterNorthMedCtr&4356012945&NPI^MR||~^^^^S|||F||2106-3^White^CDCREC|^Decatur^13^30303^USA^M^^13121||||||100221223^^^GreaterNorthMedCtr&4356012945&NPI^AN|||2135-2^Hispanic or Latino^CDCREC||||||20140826202100|Y

Example PID Segment that shows a male patient with multiple patient identifiers and multiple race codes.

 PID|1||2111000222^^^NEMedCtr&1234567890&NPI^MR~12345789^^^NEMedCtr&1234567890&N PI^LR||~^^^^^S|||M||2054-5^Black or AfricanAmerican^CDCREC~2028-9^Asian^CDCREC|^^Decatur^13^30303^USA^M^^13121||||||100221223^^^NEMed Ctr&1234567890&NPI^AN||||2135-2^Hispanic or Latino^CDCREC

PID-3: Patient Identifier List (CX_SS)

PID.3 is a repeating field that can accommodate multiple patient identifiers. The contents of this field can be used to crosswalk patient visits with multiple visit numbers. It is recommended that data providers submit the patient medical record number to facilitate identification of the patient, in the event of a required follow-up investigation. Without the medical record number, the work required to follow-up on the records of interest greatly increases on the data provider and may cause unacceptable delays in public health response. In addition, the medical record number may aid in record de-duplication efforts and may often aid in the resolution of apparent transcription errors.

PID-5: Patient Name (XPN SS)

This field contains the names of the patient; the primary or legal name of the patient is reported first. Patient name may be submitted according to the local jurisdiction or public health agency regulations and specifications. If the jurisdiction or public health agency does not require patient name to be submitted, Visit or Patient ID, as specified within this guide, shall be used by PHAs to join related visit data and for working with hospitals to find additional visit information for syndromic surveillance signal confirmation or investigation. Since, however, HL7 requires the patient name, the field must be populated even when data patient name shall not be sent. In such an instance (i.e., patient name is not sent), patient name shall be presented in a pseudonymized manner.

PID-10: Race (CE_SS_withAltCodes)

General race category reported by the patient - subject may have more than one race category.

PID-11: Patient Address (XAD_SS)

This field contains the mailing address of the patient.

PID-33: Last Update Date/Time (TS_SS_toMinute)

This field contains the last update date and time for the patient's identifying and demographic data, as defined in the PID segment.

PID-34: Last Update Facility (HD_SS)

This field identifies the facility of the last update to a patient's identifying and demographic data, as defined in the PID segment.

3.2.9 PID_SS_A04_A08_A03 - PATIENT IDENTIFICATION

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
1	Set ID - PID	SI	R	[11]	[04]	
14	Patient Identifier List	CX_SS	R	[1*]		
5	Patient Name	XPN_SS	R	[22]		
	Birth	TS_SS_toDay	0	[01]		
8	Administrative Sex	IS	RE	[01]	[01]	PHVS_Gender_SyndromicSurveillance
10	Race	CE_SS_withAltCodes	RE	[0*]		PHVS_RaceCategory_CDC
11.1	Patient Address	XAD_SS	RE	[01]		
18	Patient Account Number	CX_SS	0	[01]		
22	Ethnic Group	CE_SS_withAltCodes	RE	[0*]		PHVS_EthnicityGroup_CDC
	Patient Death Date and Time	TS_SS_toMinute	С	[01]		
1511	Patient Death Indicator	ID	С	[01]	[01]	0136
	Last Update Date/Time	TS_SS_toMinute	0	[01]		
15/1	Last Update Facility	HD_SS	0	[01]		

ID	Description
PID_SS_2166276	The value of PID-1 (Set ID - PID) SHALL be '1'.
	If the patient's legal name is not sent, the value of PID-5[*] (Patient Name) SHALL be one of list values: ~^^^^^S , ~^^^^^U

Conditional Predicates

Location	Usage	Description
PID29	C(R/RE)	If PV1-36 (Discharge Disposition) is valued with any of the following: '20', '40', '41', '42'
PID30	C(R/RE)	If PV1-36 (Discharge Disposition) is valued with any of the following: '20', '40', '41', '42'

Value Set Bindings

Location	Malue Set II)	Value Set Name	_	Locatio	е	Single Code Syste m
-8	PHVS_Gender_SyndromicSurveillanc e	Gender (Syndromic Surveillance)	R			
PID_SS_A04_A08_A03 -10	PHVS_RaceCategory_CDC	Race Category	R			
PID_SS_A04_A08_A03 -22	PHVS_EthnicityGroup_CDC	Ethnicity group	R			
PID_SS_A04_A08_A03 -30	0136	Yes/no indicator	R			

PID-3: Patient Identifier List (CX SS)

PID.3 is a repeating field that can accommodate multiple patient identifiers. The contents of this field can be used to crosswalk patient visits with multiple visit numbers. It is recommended that data providers submit the patient medical record number to facilitate identification of the patient, in the event of a required follow-up investigation. Without the medical record number, the work required to follow-up on the records of interest greatly increases on the data provider and may cause unacceptable delays in public health response. In addition, the medical record number may aid in record de-duplication efforts and may often aid in the resolution of apparent transcription errors.

PID-5: Patient Name (XPN SS)

This field contains the names of the patient; the primary or legal name of the patient is reported first. Patient name may be submitted according to the local jurisdiction or public health agency regulations and

specifications. If the jurisdiction or public health agency does not require patient name to be submitted, Visit or Patient ID, as specified within this guide, shall be used by PHAs to join related visit data and for working with hospitals to find additional visit information for syndromic surveillance signal confirmation or investigation. Since, however, HL7 requires the patient name, the field must be populated even when data patient name shall not be sent. In such an instance (i.e., patient name is not sent), patient name shall be presented in a pseudonymized manner.

PID-33: Last Update Date/Time (TS_SS_toMinute)

This field contains the last update date and time for the patient's identifying and demographic data, as defined in the PID segment.

PID-34: Last Update Facility (HD_SS)

This field identifies the facility of the last update to a patient's identifying and demographic data, as defined in the PID segment.

3.2.10 PR1 SS - PROCEDURES

Segment Definition

	Element name	Data type	Usag e	Cardinalit y	Lengt h	Value Set
TT.	Set ID - PR1	SI	R	[11]	[04]	
2	Method			[11]	[03]	0089
15	Procedur e Code	CE_SS_withAltCode s	R	[11]		0088,PHVS_AdministrativeProcedure_CDC_IC D-10PCS
5	Procedur e Date/Tim e	TS_SS_toMinute	R	[11]		

Conformance Statements

ID	Description
1PR 1 55 nn 19954	PR1-3.1 shall be populated with a value from one for the following coding systems: CPT4, ICD10-CM-PCS
PR1_SS_7457997	The value of PR1-3.3 SHALL be one of list values: C4, I10P.

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Single Code Value	
PR1_SS-2	0089	Procedure				

Location	value Set ID		Binding Strength	Location	Single Code System
		Coding Method			
PR1_SS-3	10088	Procedure Code	R	1	
PR1_SS-3	PHVS_AdministrativeProcedure_CDC_ICD-	Procedure (ICD-10 PCS)	R	1	
PR1_SS-8	()() (()	Physician ID	R		
PR1_SS- 11	IOO 1O	Physician ID	R		
PR1_SS- 12	(3() 1()	Physician ID	R		

Example:

• PR1|1||0WQ.F0ZZ^Repair Abdominal Wall, Open Approach^I10P||201408081816

3.2.11 PV1_SS_A01 - PATIENT VISIT

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
1	10 V+ 1D	SI	R	[11]	[04]	
17	Patient Class	IS	R	[11]	[01]	PHVS_PatientClass_SyndromicSurveillance
	Assigned Patient Location	PL_SS	0	[01]		
4	Admission Type	IS	0	[01]	[02]	PHVS_AdmissionType_HL7_2x
	Prior Patient Location	PL_SS	0	[01]		
17	Attending Doctor	XCN	0	[0*]		0010
1111	Hospital Service	IS	0	[01]	[03]	0069
14	Admit	IS	0	[01]	[06]	PHVS_AdmitSource_HL7_2x

Sea	Element name	Data type	Usage	Cardinality	Length	Value Set
	Source					
15	Ambulatory Status	IS	0	[0*]	[02]	0009
18	Patient Type	IS	0		[02]	0018
19	Visit Number	CX_SS	R	[11]		PHVS_IdentifierType_SyndromicSurveillance
21.21	Admit Date/Time	TS_SS_toMinute	R	[11]		

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Code	Single Code System
PV1_SS_A01- 2	PHVS_PatientClass_SyndromicSurveillance	Patient Class (Syndromic Surveillance)	R			
PV1_SS_A01- 4	PHVS_AdmissionType_HL7_2x	Admission Type (HL7)	R			
PV1_SS_A01- 7	0010	Physician ID	R			
PV1_SS_A01- 10	0069	Hospital Service	R			
PV1_SS_A01- 14	PHVS_AdmitSource_HL7_2x	Admission Source (HL7)	R			
115	0009	Ambulatory Status	R			
PV1_SS_A01- 18	0018	Patient Type	R			
PV1_SS_A01- 19	PHVS_IdentifierType_SyndromicSurveillance	Identifier Type (Syndromic Surveillance)	R			
20		Financial class	R			
PV1_SS_A01- 37	0113	Discharged to location	R			

Example PV1 for an Inpatient: This PV1 segment shows the following information

• PV1-2 Patient Class = I (Inpatient)

- PV1-4 Admission Type = E (Emergency) (US UB92 code '1')
- PV1-7 Attending Doctor populated with an identifier assigned by NE Medical Center
- PV1-10 Medical Service = MED (Medical Service)
- PV1-14 Admit source = 7 (suggested UB code for Emergency)
- PV1-19 Visit Number populated with an identifier assigned by Greater North Medical Center
- PV1-44 Admit Date/time of August 17, 2014 at 12 noon

PV1-3: Assigned Patient Location (PL_SS)

This field contains the patient's initial assigned location or the location to which the patient is being moved. The first component may be the nursing station for inpatient locations, or clinic or department, for locations other than inpatient.

PV1-4: Admission Type (IS)

Potentially used for filtering on ED patients to create the A03 Discharge when one is not created when an ED patient is admitted as an inpatient

PV1-7: Attending Doctor (XCN)

Recommend the use of the National Provider Identifier Standard provided by Centers for Medicare and Medicaid Services. For more information about NPI, search for, or to apply for a NPI, go to https://www.cms.gov/Regulations-and-Guidance/Administrative-Simplification/NationalProvIdentStand/. If NPI is not available, use a different unique identifier, such as OID or a State-designated identifier.

PV1-10: Hospital Service (IS)

This field contains the treatment or type of surgery that the patient is scheduled to receive.

PV1-14: Admit Source (IS)

This field indicates where the patient was admitted. In the US, this field is used on UB92 FL20 'Source of Admission'. The UB codes listed as examples are not an exhaustive or current list; refer to a UB specification for additional information.

PV1-15: Ambulatory Status (IS)

This field indicates any permanent or transient handicapped conditions.

PV1-19: Visit Number (CX SS)

This field contains the unique number assigned to each patient visit. Should remain constant throughout the visit.

PV1-44: Admit Date/Time (TS_SS_toMinute)

This field contains the admit date/time. This field is also used to reflect the date/time of an outpatient/emergency patient registration. Should remain constant throughout the visit.

3.2.12 PV1_SS_A03 - PATIENT VISIT

Segment Definition

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
11	Set ID - PV1	SI	R	[11]	[04]	
ľ	Patient Class	IS	R	[11]	[01]	PHVS_PatientClass_SyndromicSurveillance
	Assigned Patient Location	PL_SS	0	[01]		
4	Admission Type	IS	0	[01]	[02]	PHVS_AdmissionType_HL7_2x
	Prior Patient Location	PL_SS	0	[01]		
17	Attending Doctor	XCN	0	[0*]		0010
	Hospital Service	IS	0	[01]	[03]	0069
14	Admit Source	IS	0	[01]	[06]	PHVS_AdmitSource_HL7_2x
117	Ambulatory Status	IS	0	[0*]	[02]	0009
18	Patient Type	IS	0		[02]	0018
19	Visit Number	CX_SS	R	[11]		PHVS_IdentifierType_SyndromicSurveillance
IXD	Discharge Disposition	IS	R	[11]	[03]	PHVS_DischargeDisposition_HL7_2x
1/1 /1	Admit Date/Time	TS_SS_toMinute	R	[11]		
	Discharge Date/Time	TS_SS_toMinute	R	[1*]		

Value Set Bindings

Location	Value Set ID	Value Set Name		Binding Location	 Single Code System
	PHVS_PatientClass_SyndromicSurveillance	Patient Class (Syndromic Surveillance)	R		
PV1_SS_A03- 4	PHVS_AdmissionType_HL7_2x	Admission Type (HL7)	R		
1/	0010	Physician ID	R		
PV1_SS_A03- 10	0069	Hospital Service	R		
	PHVS_AdmitSource_HL7_2x	Admission Source (HL7)	R		
PV1_SS_A03- 15		Ambulatory Status	R		
PV1_SS_A03- 18	0018	Patient Type	R		
PV1_SS_A03- 19	PHVS_IdentifierType_SyndromicSurveillance	Identifier Type (Syndromic Surveillance)	R		
PV1_SS_A03- 20	0064	Financial class	R		
	PHVS_DischargeDisposition_HL7_2x	Discharge Disposition (HL7)	R		
PV1_SS_A03- 37	0113	Discharged to location	R		

PV1-3: Assigned Patient Location (PL_SS)

This field contains the patient's initial assigned location or the location to which the patient is being moved. The first component may be the nursing station for inpatient locations, or clinic or department, for locations other than inpatient.

PV1-4: Admission Type (IS)

Potentially used for filtering on ED patients to create the A03 Discharge when one is not created when an ED patient is admitted as an inpatient

PV1-7: Attending Doctor (XCN)

Recommend the use of the National Provider Identifier Standard provided by Centers for Medicare and

Medicaid Services. For more information about NPI, search for, or to apply for a NPI, go to https://www.cms.gov/Regulations-and-Guidance/Administrative-Simplification/NationalProvIdentStand/. If NPI is not available, use a different unique identifier, such as OID or a State-designated identifier.

PV1-10: Hospital Service (IS)

This field contains the treatment or type of surgery that the patient is scheduled to receive.

PV1-14: Admit Source (IS)

This field indicates where the patient was admitted. In the US, this field is used on UB92 FL20 'Source of Admission'. The UB codes listed as examples are not an exhaustive or current list; refer to a UB specification for additional information

PV1-15: Ambulatory Status (IS)

This field indicates any permanent or transient handicapped conditions.

PV1-19: Visit Number (CX_SS)

This field contains the unique number assigned to each patient visit. Should remain constant throughout the visit.

PV1-36: Discharge Disposition (IS)

N/A FOR AMBULATORY CARE Helps identify severity of patient's condition and any indication of death. It is expected that this field will update with multiple submissions. Include both the code and text description of the code. This field should indicate patient death, if applicable.

PV1-44: Admit Date/Time (TS SS toMinute)

This field contains the admit date/time. This field is also used to reflect the date/time of an outpatient/emergency patient registration. Should remain constant throughout the visit.

PV1-45: Discharge Date/Time (TS SS toMinute)

This field contains the discharge date/time

3.2.13 PV1 SS A04 - PATIENT VISIT

Segment Definition

Sea	Element name	Data type	Usage	Cardinality	Length	Value Set
11	Set ID - PV1	SI	R	[11]	[04]	
2	Patient	IS	R	[11]	[01]	PHVS_PatientClass_SyndromicSurveillance

Seq	Element name	Data type	Usage	Cardinality	Length	Value Set
	Class					
	Assigned Patient Location	PL_SS	0	[01]		
44	Admission Type	IS	0	[01]	[02]	PHVS_AdmissionType_HL7_2x
	Prior Patient Location	PL_SS	0	[01]		
1/	Attending Doctor	XCN	0	[0*]		0010
	Hospital Service	IS	0	[01]	[03]	0069
114	Admit Source	IS	0	[01]	[06]	PHVS_AdmitSource_HL7_2x
רוו	Ambulatory Status	IS	0	[0*]	[02]	0009
18	Patient Type	IS	0		[02]	0018
mu	Visit Number	CX_SS	R	[11]		PHVS_IdentifierType_SyndromicSurveillance
	Discharge Disposition	IS	RE		[03]	PHVS_DischargeDisposition_HL7_2x
21.21	Admit Date/Time	TS_SS_toMinute	R	[11]		

Value Set Bindings

Location	IVAILLE SET II.)	Value Set Name	Binding Strength	BILLION	_	Single Code System
	PHVS_PatientClass_SyndromicSurveillance	Patient Class				
PV1_SS_A04- 4	PHVS_AdmissionType_HL7_2x	Admission Type (HL7)	R			
PV1_SS_A04- 7		Physician ID	R			
PV1_SS_A04- 10	0069	Hospital Service	R			
PV1_SS_A04- 14	PHVS_AdmitSource_HL7_2x	Admission Source (HL7)	R			

	Value Set ID	Value Set Name	Binding Strength	Location	Code	Single Code System
PV1_SS_A04- 15		Ambulatory Status	R			
PV1_SS_A04- 18	0018	Patient Type	R			
	PHVS_IdentifierType_SyndromicSurveillance	Identifier Type (Syndromic Surveillance)	R			
PV1_SS_A04- 20	0064	Financial class	R			
	PHVS_DischargeDisposition_HL7_2x	Discharge Disposition (HL7)	R			
PV1_SS_A04- 37	0113	Discharged to location	R			

3.2.14 PV1_SS_A08 - PATIENT VISIT

Segment Definition

	Element name		Usage	Cardinality	Length	Value Set
1	Sot ID -	SI	R	[11]	[04]	
T)	Patient Class	IS	R	[11]	[01]	PHVS_PatientClass_SyndromicSurveillance
	Assigned Patient Location	PL_SS	0	[01]		
4	Admission Type	IS	0	[01]	[02]	PHVS_AdmissionType_HL7_2x
6	Prior Patient Location	PL_SS	0	[01]		
1/	Attending Doctor	XCN	0	[0*]		0010
	Hospital Service	IS	0	[01]	[03]	0069
14	Admit Source	IS	0	[01]	[06]	PHVS_AdmitSource_HL7_2x
15	Ambulatory Status	IS	0	[0*]	[02]	0009

Sea	Element name	Data type	Usage	Cardinality	Length	Value Set
18	Patient Type	IS	0		[02]	0018
19	Visit Number	CX_SS	R	[11]		PHVS_IdentifierType_SyndromicSurveillance
เรก	Discharge Disposition	IS	RE	[01]	[03]	PHVS_DischargeDisposition_HL7_2x
2121	Admit Date/Time	TS_SS_toMinute	R	[11]		
шъ	Discharge Date/Time	TS_SS_toMinute	RE	[0*]		

Value Set Bindings

value Set Dille	illy3					
Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Code	Single Code System
	PHVS_PatientClass_SyndromicSurveillance	Patient Class (Syndromic Surveillance)	R			
PV1_SS_A08- 4	PHVS_AdmissionType_HL7_2x	Admission Type (HL7)	R			
1/	0010	Physician ID	R			
PV1_SS_A08- 10	0069	Hospital Service	R			
	PHVS_AdmitSource_HL7_2x	Admission Source (HL7)	R			
PV1_SS_A08- 15		Ambulatory Status	R			
PV1_SS_A08- 18	0018	Patient Type	R			
PV1_SS_A08- 19	PHVS_IdentifierType_SyndromicSurveillance	Identifier Type (Syndromic Surveillance)	R			
PV1_SS_A08- 20	0064	Financial class	R			
PV1_SS_A08- 31	0021	Bad Debt Agency Code	R			
PV1_SS_A08- 36	PHVS_DischargeDisposition_HL7_2x	Discharge Disposition	R			

Location	IVAIIIE SET II I	Value Set Name	Binding Strength	Binding Location	Single Code Value	Single Code System
		(HL7)				
PV1_SS_A08- 37	0113	Discharged to location	R			

3.2.15 PV2_SS - PATIENT VISIT - ADDITIONAL INFORMATION

The PV2 segment is a continuation of visit-specific information and is the segment where the Admit Reason is passed.

Segment Definition

	5						
	Sea	Element name	Data type	Usage	Cardinality	Length	Value Set
,	≺ .	Admit Reason	CE_SS_withAltCodes	RE	[01]		PHVS_AdministrativeDiagnosis_CDC_ICD- 10CM,PHVS_Disease_CDC

Value Set Bindings

	=9					
Location	Vallie Set III	Value Set Name	Binding Strength		Single Code Value	_
PV2_SS-3	PHVS_AdministrativeDiagnosis_CDC_ICD-10CM	Diagnosis (ICD-10 CM)	R	1		
PV2_SS-3	PHVS_Disease_CDC	Disease	R	1		

Examples:

- PV2|||11530004^Brittle Diabetes^SCT (PV2-3 Admit Reason is SNOMED encoded)
- PV2|||O24.4^Diabetes Mellitus arising in pregnancy^I10 (PV2-3 Admit Reason is ICD10 encoded)
- PV2|||^Diabetes Mellitus (non-coded from drop-down or free text)

PV2-3: Admit Reason (CE_SS_withAltCodes)

May be coded (CE.1 - CE.3) or Free text (CE.2). Free text is preferred. This field is the provider's reason for admitting the patient. It is distinct from the Chief Complaint / Reason for Visit field which is the patient's self-reported chief complaint or reason for visit. Senders should send the richest and most complete description of the patient's reason for admission or encounter. If both free text and drop-down selection text are available, send both. If only drop-down list fields are available, then concatenate all drop down list values selected and submit.

3.3 Datatypes

3.3.1 CE - CODED ELEMENT

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Identifier	ST	0	[020]	
2	Text	ST	0	[0199]	
3	Name of Coding System	ID	0	[020]	0396
4	Alternate Identifier	ST	0	[020]	
5	Alternate Text	ST	0	[0199]	
6	Name of Alternate Coding System	ID	0	[020]	0396

Value Set Bindings

Location	Value Set II)		Binding Strength	•	Single Code Value	Single Code System
CE-3	0396	Coding system	R			
CE-6	0396	Coding system	R			

3.3.2 CE_SS_NOALTCODES - CODED ELEMENT

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Identifier	ST	RE	[020]	
2	Text	ST	RE	[0199]	
3	Name of Coding System	ID	C(R/X)	[020]	0396
4	Alternate Identifier	ST	Х		
5	Alternate Text	ST	Х		
6	Name of Alternate Coding System	ID	х		0396

Conditional Predicates

Location	Usage	Description
CE.3	C(R/X)	If CE.1 (Identifier) is valued

Value Set Bindings

Location			•	Binding Location	Sirigle Code	Single Code System
CE_SS_NoAltCodes-3	U.39h	Coding system	R			

Location			•	Binding Location	Single Code Value	Single Code System
CE_SS_NoAltCodes-6	10.39h	Coding system	R			

Component Definitions

CE.2: Text

It is strongly recommended that text be sent to accompany any identifier. When a coded value is not known, text can still be sent, in which case no coding system should be identified.

3.3.3 CE_SS_WITHALTCODES - CODED ELEMENT

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Identifier	ST	RE	[020]	
2	Text	ST	RE	[0199]	
3	Name of Coding System	ID	C(R/X)	[020]	0396
4	Alternate Identifier	ST	0	[020]	
5	Alternate Text	ST	0	[0199]	
6	Name of Alternate Coding System	ID	C(R/X)	[020]	0396

Conditional Predicates

Location	Usage	Description
CE.3	C(R/X)	If CE.1 (Identifier) is valued
CE.6	C(R/X)	If CE.4 (Alternate Identifier) is valued

Value Set Bindings

Location			•	Binding Location	Single Code Value	Single Code System
CE_SS_withAltCodes-3	U.59h	Coding system	R			
CE_SS_withAltCodes-6	U.39h	Coding system	R			

Component Definitions

CE.2: Text

It is strongly recommended that text be sent to accompany any identifier. When a coded value is not known, text can still be sent, in which case no coding system should be identified.

CE.4: Alternate Identifier

The alternate identifier (from the alternate coding system) should be the closest match for the identifier found in component 1.

CE.5: Alternate Text

It is strongly recommended that alternate text be sent to accompany any alternate identifier.

3.3.4 CWE - CODED WITH EXCEPTIONS

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Identifier	ST	0	[020]	
2	Text	ST	0	[0199]	
3	Name of Coding System	ID	0	[020]	0396
4	Alternate Identifier	ST	0	[020]	
5	Alternate Text	ST	0	[0199]	
6	Name of Alternate Coding System	ID	0	[020]	0396
7	Coding System Version ID	ST	С	[010]	
8	Alternate Coding System Version ID	ST	0	[010]	
9	Original Text	ST	0	[0199]	

Value Set Bindings

Location	Value Set II)		•	•	Single Code Value	Single Code System
CWE-3	0396	Coding system	R			
CWE-6	0396	Coding system	R			

3.3.5 CWE_SS - CODED WITH EXCEPTIONS

Seq	Element name	Data type	Usage	Length	Value Set
1	Identifier	ST	RE	[020]	
2	Text	ST	RE	[0199]	
3	Name of Coding System	ID	C(R/X)	[020]	0396
4	Alternate Identifier	ST	0	[020]	
5	Alternate Text	ST	0	[0199]	

Seq	Element name	Data type	Usage	Length	Value Set
6	Name of Alternate Coding System	ID	C(R/X)	[020]	0396
7	Coding System Version ID	ST	0	[010]	
8	Alternate Coding System Version ID	ST	0	[010]	
9	Original Text	ST	RE	[0199]	

Conditional Predicates

Location	Usage	Description					
CWE.3	C(R/X)	If CWE.3 (Name of Coding System) is valued					
CWE.6	C(R/X)	If CWE.6 (Name of Alternate Coding System) is valued					

Value Set Bindings

Location	Malua Sat III		•	•	Single Code Value	Single Code System
CWE_SS-3	0396	Coding system	R			
CWE_SS-6	0396	Coding system	R			

Comments

- 2: It is strongly recommended that text be sent to accompany any identifier. When a coded value is not known, text can still be sent, in which case no coding system should be identified
- **4:** The alternate identifier (from the alternate coding system) should be the closest match for the identifier found in component 1.
- **5:** It is strongly recommended that alternate text be sent to accompany any alternate identifier.
- 7: The version ID for the coding system identified by components 1-3. It belongs conceptually to the group of components 1-3 and appears here only for reasons of backward compatibility.
- **8:** The version ID for the coding system identified by components 4-6. It belongs conceptually to the group of alternate components 4-6 and appears here only for reasons of backward compatibility.
- **9:** The original text that was available to an automated process or a human before a specific code was assigned

3.3.6 CX_SS - EXTENDED COMPOSITE ID WITH CHECK DIGIT

Seq	Element name	Data type	Usage	Length	Value Set
1	ID Number	ST	R	[015]	
2	Check Digit	ST	0	[01]	
La	Check Digit Scheme	ID	0	[03]	0061
	Assigning Authority	HD_SS	R		0363

Seq	Element name	Data type	Usage	Length	Value Set
5	Identifier Type Code	ID	0	[05]	PHVS_IdentifierType_SyndromicSurveillance
6	Assigning Facility	HD_SS	0		
7	Effective Date	DT	0	[08]	
8	Expiration Date	DT	0	[08]	
9	Assigning Jurisdiction	CWE_SS	0		
	Assigning Agency or Department	CWE_SS	0		

Value Set Bindings

Location	IVAIIIE SET II I		_	I ocation	Single Code System
CX_SS-3	IOO61	Check digit scheme	R		
CX_SS-4	11.150.1	Assigning authority	R		
CX_SS-5		Identifier Type (Syndromic Surveillance)	R		

Note: The check digit and check digit scheme are null if ID is alphanumeric.

Example: PID-3 Patient ID: |PSN101059711^^^TX01&OID&ISO|

Component Definitions

CX.1: ID Number

Identifier may be alphanumeric.

CX.4: Assigning Authority

A unique name of the system (or organization or agency or department) that creates the data.

3.3.7 DTM_SS_YYYYMMDD - DATE/TIME

#	Value	Usage	Predicate
1	YYYY	R	
2	MM	R	
3	DD	R	
4	HH	0	
5	MM		If HH(Hour) is valued.
6	SS	C(O/X)	If MM(Minute) is valued.
7	s	C(O/X)	If SS(Second) is valued.
8	s	C(O/X)	If s(1/10 second) is valued.
9	s	C(O/X)	If s(1/100 second) is valued.
10	s	C(O/X)	If s(1/1000 second) is valued.
11	ZZZZ	0	

Usage note:

Format: YYYY[MM[DD[HH[MM[SS[.s[s[s]]]]]]]]]+/-ZZZZ].

The number of characters populated (excluding the time zone specification) specifies the precision.

Thus:

- only the first four are used to specify a precision of "year"
- the first six are used to specify a precision of "month"
- the first eight are used to specify a precision of "day"
- the first ten are used to specify a precision of "hour"
- the first twelve are used to specify a precision of "minute"
- the first fourteen are used to specify a precision of "second"
- the first sixteen are used to specify a precision of "one tenth of a second"
- the first nineteen are used to specify a precision of "one ten thousandths of a second"

Example: |199904| specifies April 1999.

The time zone (+/-ZZZZ) is represented as +/-HHMM offset from Co-ordinated Universal Time (UTC) (formerly Greenwich Mean Time (GMT)), where +0000 or 0000 both represent UTC (without offset). The specific data representations used in the HL7 encoding rules are compatible with ISO 8824-1987(E). Note that if the time zone is not included, the time zone is assumed to be that of the local time zone of the sender. Also note that a DTM or TS valued field with the HHMM part set to "0000" represents midnight of the night extending from the previous day to the day given by the YYYYMMDD part.

The HL7 Standard strongly recommends that all systems routinely send the time zone offset but does not require it. All HL7 systems are required to accept the time zone offset, but its implementation is application specific. For many applications the time of interest is the local time of the sender.

3.3.8 DTM_SS_YYYYMMDDHHMM - DATE/TIME

Data Type Definition

#	Value	Usage	Predicate
1	YYYY	R	
2	MM	R	
3	DD	R	
4	HH	R	
5	MM	R	
6	SS	0	
7	S	C(O/X)	If SS(Second) is valued.
8	S	C(O/X)	If s(1/10 second) is valued.
9	s	C(O/X)	If s(1/100 second) is valued.
10	s	C(O/X)	If s(1/1000 second) is valued.
11	ZZZZ	0	

3.3.9 <u>DTM_SS_YYYYMMDDHHMMSS - DATE/TIME</u>

Data Type Definition

#	Value	Usage	Predicate
1	YYYY	R	
2	MM	R	
3	DD	R	
4	HH	R	
5	MM	R	
6	SS	R	
7	s	0	
8	S	C(O/X)	If s(1/10 second) is valued.
9	s	C(O/X)	If s(1/100 second) is valued.
10	s	C(O/X)	If s(1/1000 second) is valued.
11	ZZZZ	R	

3.3.10 EI - ENTITY IDENTIFIER

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Entity Identifier	ST	0	[0199]	
2	Namespace ID	IS	0	[020]	0363
3	Universal ID	ST	С	[0199]	
4	Universal ID Type	ID	С	[06]	0301

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	_	Single Code	Single Code System
EI-2	1111111	Assigning authority	R			
EI-4	0301	Universal ID type	R			

3.3.11 EI_SS - ENTITY IDENTIFIER

Data Type Definition

-	Type Deminion				
Seq	Element name	Data type	Usage	Length	Value Set
1	Entity Identifier	ST	RE	[0199]	
2	Namespace ID	IS	RE	[020]	0363
3	Universal ID	ST	R	[0199]	
4	Universal ID Type	ID	R	[06]	PHVS_UniversalIDType_SyndromicSurveillance

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Single Code Value	
EI_SS-2		Assigning authority	R		
EI_SS-4	PHVS_UniversalIDType_SyndromicSurveillance	Universal ID Type (Syndromic Surveillance)	R		

Note: The assigning authority (components 2-4) is a unique identifier of the system (or organization or agency or department) that creates the data.

Component Definitions

El.1: Entity Identifier

The first component is usually defined to be unique within the series of identifiers created by the <assigning authority>, defined by a hierarchic designator, represented by components 2 through 4. See "HD - hierarchic designator".

El.2: Namespace ID

See HD_SS - hierarchic designator - "Namespace ID".

El.3: Universal ID

See HD_SS - hierarchic designator - "Universal ID".

El.4: Universal ID Type

See HD_SS - hierarchic designator - "Universal ID Type".

3.3.12 <u>HD_SS - HIERARCHIC DESIGNATOR</u>

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Namespace ID	IS	RE	[020]	0300
2	Universal ID	ST	R	[0199]	
3	Universal ID Type	ID	R	[06]	PHVS_UniversalIDType_SyndromicSurveillance

Value Set Bindings

Tuido ou						
Location	value Set II)	Value Set Name	Binding Strength	Binding Location	Single Code Value	Single Code System
HD_SS-1	0300	Namespace ID	R			
HD_SS-3	PHVS_UniversalIDType_SyndromicSurveillance	Universal ID Type (Syndromic Surveillance)	R			

Component Definitions

HD.2: Universal ID

This is a string formatted according to the scheme defined by the third component, <universal ID type>. The UID is intended to be unique over time within the UID type. It is rigorously defined. Each UID must belong to one of the specifically enumerated schemes for constructing UIDs (defined by the UID type).

HD.3: Universal ID Type

Universal ID Type (ID) governs the interpretation of the second component of the HD. This component contains the code system identifier 'NPI' if National Provider identifiers are used.

PHVS_UniversalIDType_SyndromicSurveillance lists Universal ID Types supported.

3.3.13 <u>ID - CODED VALUE FOR HL7 DEFINED TABLES</u>

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	ID				

3.3.14 <u>IS - CODED VALUE FOR USER-DEFINED TABLES</u>

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	IS				

3.3.15 MSG_SS - MESSAGE TYPE

Data Type Definition

Seq		Data type	Usage	Length	Value Set
1	Message Code	ID	R	[03]	PHVS_MessageType_SyndromicSurveillance
2	Trigger Event	ID	R	[03]	PHVS_EventType_SyndromicSurveillance
3	Message Structure	ID	R	[07]	PHVS_MessageStructure_SyndromicSurveillance

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	BINAINA	_	Single Code System
MSG_SS- 1	PHVS_MessageType_SyndromicSurveillance	Message Type (Syndromic Surveillance)	R			
MSG_SS- 2	PHVS_EventType_SyndromicSurveillance	Event Type (Syndromic Surveillance)	R			
MSG_SS- 3	PHVS_MessageStructure_SyndromicSurveillance	Message Structure (Syndromic Surveillance)	R			

3.3.16 <u>NM - NUMERIC</u>

Seq	Element name	Data type	Usage	Length	Value Set
1	NM				

3.3.17 PT_SS - PROCESSING TYPE

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Processing ID	ID	R	[03]	0103
2	Processing Mode	ID	0	[03]	0207

Conformance Statements

ID	Description
PT_SS_6152904	The value of PT-1 (Processing ID) SHALL be one of list values: P,T,D.

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	•	Single Code Value	Single Code System
PT_SS-1	0103	Processing ID	R			
PT_SS-2	0207	Processing mode	R			

3.3.18 SI - SEQUENCE ID

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	SI				

3.3.19 **ST - STRING DATA**

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
	ST				

3.3.20 TS_SS_TODAY - TIME STAMP

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Time	DTM_SS_YYYYMMDD	R	[024]	
2	Degree of Precision	ID	Χ		

3.3.21 TS_SS_TOMINUTE - TIME STAMP

Seq	Element name	Data type	Usage	Length	Value Set
1	Time	DTM_SS_YYYYMMDDHHMM	R	[024]	
2	Degree of Precision	ID	Χ		

3.3.22 TS_SS_TOSECOND - TIME STAMP

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Time	DTM_SS_YYYYMMDDHHMMSS	R	[024]	
2	Degree of Precision	ID	Х		0529

Value Set Bindings

Location	Value Set ID	Value Set Name	•	Binding Location	Single Code Value	Single Code System
TS_SS_toSecond-2	0529	Precision	R			

3.3.23 TX - TEXT DATA

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	TX				

3.3.24 VARIES - VARIES

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	VARIES				

3.3.25 <u>VID_SS - VERSION IDENTIFIER</u>

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Version ID	ID	R	[05]	0104
2	Internationalization Code	CE_SS_withAltCodes	0		0399
3	International Version ID	CE_SS_withAltCodes	0		

Value Set Bindings

Location	Value Set II)		•	•	Single Code Value	Single Code System
VID_SS-1	0104	Version ID	R			
VID_SS-2	0399	Country code	R			

Usage note:

Example: MSH-12 Version ID: |2.5.1|

3.3.26 XAD_SS - EXTENDED ADDRESS

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Street Address	SAD	0		
2	Other Designation	ST	0	[0120]	
3	City	ST	RE	[050]	
4	State or Province	ST	RE	[050]	PHVS_State_FIPS_5-2
5	Zip or Postal Code	ST	RE	[012]	
6	Country	ID	RE	[03]	PHVS_Country_ISO_3166-1
7	Address Type	ID	0	[03]	0190
8	Other Geographic Designation	ST	0	[050]	
9	County/Parish Code	IS	RE	[020]	PHVS_County_FIPS_6-4
10	Census Tract	IS	0	[020]	0288
11	Address Representation Code	ID	0	[01]	0465
12	Address Validity Range	DR_DTM	Х		
13	Effective Date	TS_SS_toDay	0		
14	Expiration Date	TS_SS_toDay	0		

Value Set Bindings

Location	T T	Value Set Name	Binding Strength	Binding Location	Single Code Value	Single Code System
XAD_SS-4	PHVS_State_FIPS_5-2	State	R			
XAD_SS-6	PHVS_Country_ISO_3166-1	Country	R			
XAD_SS-7	0190	Address type	R			
XAD_SS-9	PHVS_County_FIPS_6-4	County	R			
XAD_SS-10	0288	Census tract	R			
XAD_SS-11	0465	Name/address representation	R			

Component Definitions

XAD.4: State or Province

It is recommended that the 2-digit(numeric) abbreviation be used for State of the patient domestic home address. Helps characterize spatial-temporal patterns for analysis based on patient's residence. It is also a readily available data element that is useful if other patient location data elements are not available.

XAD.5: Zip or Postal Code

Provide a minimum of 5 digits for domestic ZIP codes. Foreign postal codes should be supported. Supports the Federal use case. County helps to further target spatial temporal patterns since ZIP Code can cross multiple counties. This data element is Core to allow for differences in geographical characterization between jurisdictions (i.e., some states operate public health activities on a county level, others on a city/town level, etc.)

XAD.6: Country

It is recommended that the 3-character country codes be used for Country of the patient home address

XAD.9: County/Parish Code

The datatype has been changed from ST to IS to constrain to FIPS codes.

3.3.27 XCN - EXTENDED COMPOSITE ID NUMBER AND NAME FOR PERSONS

Seq	Element name	Data type	Usage	Length	Value Set
1	ID Number	ST	0	[015]	
2	Family Name	FN	0		
3	Given Name	ST	0	[030]	
4	Second and Further Given Names or Initials Thereof	ST	0	[030]	
5	Suffix (e.g., JR or III)	ST	0	[020]	
6	Prefix (e.g., DR)	ST	0	[020]	
7	Degree (e.g., MD)	IS	0	[05]	0360
8	Source Table	IS	С	[04]	0297
9	Assigning Authority	HD	0		0363
10	Name Type Code	ID	0	[01]	0200
11	Identifier Check Digit	ST	0	[01]	
12	Check Digit Scheme	ID	С	[03]	0061
13	Identifier Type Code	ID	0	[05]	0203
14	Assigning Facility	HD	0		
15	Name Representation Code	ID	0	[01]	0465
16	Name Context	CE	0		0448
17	Name Validity Range	DR_DTM	0		
18	Name Assembly Order	ID	0	[01]	0444
19	Effective Date	TS	0		
20	Expiration Date	TS	0		
21	Professional Suffix	ST	0	[0199]	
22	Assigning Jurisdiction	CWE	0		
23	Assigning Agency or	CWE	0		

Seq	Element name	Data type	Usage	Length	Value Set
	Department				

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Sinole	Single Code System
XCN-7	0360	Degree/license/certificate	R			
XCN-8	0297	CN ID source	R			
XCN-9	0363	Assigning authority	R			
XCN-10	0200	Name type	R			
XCN-12	0061	Check digit scheme	R			
XCN-13	0203	Identifier type	R			
XCN-15	0465	Name/address representation	R			
XCN-16	0448	Name context	R			
XCN-18	0444	Name assembly order	R			

3.3.28 XON - EXTENDED COMPOSITE NAME AND IDENTIFICATION NUMBER FOR ORGANIZATIONS

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Organization Name	ST	0	[050]	
2	Organization Name Type Code	IS	0	[020]	0204
3	ID Number	NM	0	[04]	
4	Check Digit	NM	0	[01]	
5	Check Digit Scheme	ID	0	[03]	0061
6	Assigning Authority	HD	0		0363
7	Identifier Type Code	ID	0	[05]	0203
8	Assigning Facility	HD	0		
9	Name Representation Code	ID	0	[01]	0465
10	Organization Identifier	ST	0	[020]	

Value Set Bindings

Location	Value Set ID	Vallic Sot Namo	•	_	Single Code Value	Single Code System
XON-2	111/114	Organizational name type	R			
XON-5	0061	Check digit scheme	R			
XON-6	0363	Assigning authority	R			

Location	Value Set ID	Maille Set Name	•	•	Single Code Value	Single Code System
XON-7	0203	Identifier type	R			
XON-9	104hh	Name/address representation	R			

3.3.29 XPN - EXTENDED PERSON NAME

Data Type Definition

Seq	Element name	Data type	Usage	Length	Value Set
1	Family Name	FN	0		
2	Given Name	ST	0	[030]	
3	Second and Further Given Names or Initials Thereof	ST	0	[030]	
4	Suffix (e.g., JR or III)	ST	0	[020]	
5	Prefix (e.g., DR)	ST	0	[020]	
6	Degree (e.g., MD)	IS	0	[06]	0360
7	Name Type Code	ID	0	[01]	0200
8	Name Representation Code	ID	0	[01]	0465
9	Name Context	CE	0		0448
10	Name Validity Range	DR_DTM	0		
11	Name Assembly Order	ID	0	[01]	0444
12	Effective Date	TS	0		
13	Expiration Date	TS	0		
14	Professional Suffix	ST	0	[0199]	

Value Set Bindings

Location	Value Set ID	Value Set Name	Binding Strength	Binding Location	Single Code Value	Single Code System
XPN-6	0360	Degree/license/certificate	R			
XPN-7	0200	Name type	R			
XPN-8	0465	Name/address representation	R			
XPN-9	0448	Name context	R			
XPN-11	0444	Name assembly order	R			

3.3.30 XPN SS - EXTENDED PERSON NAME

Seq	Element name	Data type	Usage	Length	Value Set
1	Family Name	FN	0		

Seq	Element name	Data type	Usage	Length	Value Set
2	Given Name	ST	0	[030]	
14	Second and Further Given Names or Initials Thereof	ST	0	[030]	
4	Suffix (e.g., JR or III)	ST	0	[020]	
5	Prefix (e.g., DR)	ST	0	[020]	
in.	Degree (e.g., MD)	IS	0	[06]	0360
7	Name Type Code	ID	R	[01]	PHVS_NameType_SyndromicSurveillance
	Name Representation Code	ID	0	[01]	0465
9	Name Context	CE_SS_withAltCodes	0		0448
10	Name Validity Range	_	0		
11	Name Assembly Order	ID	0	[01]	0444
12	Effective Date	TS_SS_toDay	0		
13	Expiration Date	TS_SS_toDay	0		
14	Professional Suffix	ST	0	[0199]	

Value Set Bindings

		Value Set Name	Binding Strengt h	Locatio	_	_
XPN_SS -6	0360	Degree/license/certificat e	R			
XPN_SS -7	PHVS_NameType_SyndromicSurveillance	Name Type (Syndromic Surveillance)	R			
-ŏ	U400	Name/address representation	R			
XPN_SS -9		Name context	R	1		
XPN_SS -11	0444	Name assembly order	R			

Component Definitions

XPN.7: Name Type Code

For this implementation, the only acceptable values in PID-5.7, Patient Name Type Code, are values of "L", "S" or "U".

3.4 Value Sets

3.4.1 <u>0061 - CHECK DIGIT SCHEME</u>

Codes

Value	Code System	Usage	Description	Comment
M11	HL70061	Р	Mod 11 algorithm	
ISO	HL70061	Р	ISO 7064: 1983	
NPI	HL70061	IP	Check digit algorithm in the US National Provider Identifier	
M10	HL70061	Р	Mod 10 algorithm	

3.4.2 <u>0072 - INSURANCE PLAN ID</u>

Codes

Value	Code System	Usage	Description	Comment
	HL70072		No suggested values defined	

3.4.3 <u>0085 - OBSERVATION RESULT STATUS CODES INTERPRETATION</u>

Value	Code System	Usage	Description	Comment
I	HL70085	Р	Specimen in lab; results pending	
Х	HL70085	Р	Results cannot be obtained for this observation	
Р	HL70085	Р	Preliminary results	
D	HL70085	Р	Deletes the OBX record	
U	HL70085	Р	Results status change to final without retransmitting results already sent as 'preliminary.' E.g., radiology changes status from preliminary to final	
N	HL70085	Р	Not asked; used to affirmatively documer that the observation identified in the OBX was not sought when the universal service ID in OBR-4 implies that it would be sought.	
R	HL70085	Р	Results entered not verified	

Value	Code System	Usage	Description	Comment
F	HL70085	Р	Final results; Can only be changed with a corrected result.	
W	HL70085	Р	Post original as wrong, e.g., transmitted for wrong patient	
0	HL70085	Р	Order detail description only (no result)	
С	HL70085	Р	Record coming over is a correction and thus replaces a final result	
S	HL70085	Р	Partial results	

3.4.4 <u>0088 - PROCEDURE CODE</u>

Codes

Value	Code System	Usage	Description	Comment
	HL70088		No suggested values defined	

3.4.5 <u>0089 - PROCEDURE CODING METHOD</u>

Codes

١	Value	Code System	Usage	Description	Comment
ſ		HL70089		No suggested values defined	

3.4.6 <u>0103 - PROCESSING ID</u>

Codes

Value	Code System	Usage	Description	Comment
T	HL70103	Р	Training	
D	HL70103	Р	Debugging	
Р	HL70103	Р	Production	

3.4.7 <u>0104 - VERSION ID</u>

Value	Code System	Usage	Description	Comment
2.0D	HL70104	Р	Demo 2.0	
2.3.1	HL70104	Р	Release 2.3.1	
2.5.1	HL70104	Р	Release 2.5.1	
2.0	HL70104	Р	Release 2.0	
2.1	HL70104	Р	Release 2. 1	
2.2	HL70104	Р	Release 2.2	
2.3	HL70104	Р	Release 2.3	
2.4	HL70104	Р	Release 2.4	
2.5	HL70104	Р	Release 2.5	

3.4.8 0136 - YES/NO INDICATOR

Codes

Value	Code System	Usage	Description	Comment
N	HL70136	Р	No	
Υ	HL70136	Р	Yes	

3.4.9 0155 - ACCEPT/APPLICATION ACKNOWLEDGMENT CONDITIONS

Codes

Value	Code System	Usage	Description	Comment
SU	HL70155	Р	Successful completion only	
ER	HL70155	Р	Error/reject conditions only	
NE	HL70155	Р	Never	
AL	HL70155	Р	Always	

3.4.10 0155 SS ACK - FORACKPROFILE

Codes

Value	Code System	Usage	Description	Comment
AL	HL70155	R	Always	

3.4.11 <u>0155_SS_NOACK - FORNOACKPROFILE</u>

Codes

Value	Code System	Usage	Description	Comment
NE	HL70155	R	Never	

3.4.12 <u>0287 - PROBLEM/GOAL ACTION CODE</u>

Value	Code System	Usage	Description	Comment
UP	HL70287	Р	UPDATE	
CO	HL70287	Р	CORRECT	
UC	HL70287	Р	UNCHANGED	
DE	HL70287	Р	DELETE	
UN	HL70287	Р	UNLINK	
AD	HL70287	Р	ADD	
LI	HL70287	Р	LINK	

3.4.13 0297 - CN ID SOURCE

Codes

Value	Code System	Usage	Description	Comment
	HL70297		No suggested values defined	

3.4.14 <u>0300 - NAMESPACE ID</u>

Codes

Value	Code System	Usage	Description	Comment
	HL70300		No suggested values defined	

3.4.15 <u>0301 - UNIVERSAL ID TYPE</u>

Value	Code System	Usage	Description	Comment
L,M,N	HL70301	Р	These are reserved for locally defined coding schemes.	
GUID	HL70301	Р	Same as UUID.	
URI	HL70301	Р	Uniform Resource Identifier	
x500	HL70301	Р	An X.500 directory name	
ISO	HL70301	Р	An International Standards Organization Object Identifier	
В	HL70301	Р		
M	HL70301	Р		
HCD	HL70301	Р	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)	
UUID	HL70301	Р	The DCE Universal Unique Identifier	
L	HL70301	Р		
DNS	HL70301	Р	An Internet dotted name. Either in ASCII or as integers	
Random	HL70301	Р	Usually a base64 encoded string of random bits. The uniqueness depends on the length of the bits. Mail systems often generate ASCII string "unique names," from a combination of random bits and system names.	
HL7	HL70301	Р	Reserved for future HL7 registration schemes	
x400	HL70301	Р	An X.400 MHS format identifier	

3.4.16 0357 - MESSAGE ERROR CONDITION CODES

Codes

Value	Code System	Usage	Description	Comment
0	HL70357	Р	Message accepted	
100	HL70357	Р	Segment sequence error	
101	HL70357	Р	Required field missing	
102	HL70357	Р	Data type error	
103	HL70357	Р	Table value not found	
200	HL70357	Р	Unsupported message type	
201	HL70357	Р	Unsupported event code	
202	HL70357	Р	Unsupported processing id	
203	HL70357	Р	Unsupported version id	
204	HL70357	Р	Unknown key identifier	
205	HL70357	Р	Duplicate key identifier	
206	HL70357	Р	Application record locked	
207	HL70357	Р	Application internal error	

3.4.17 <u>0362 - FACILITY</u>

Codes

Value	Code System	Usage	Description	Comment
	HL70362		No suggested values defined	

3.4.18 0363 - ASSIGNING AUTHORITY

Codes

١	/alue	Code System	Usage	Description	Comment
		HL70363		No suggested values	

3.4.19 <u>0396 - CODING SYSTEM</u>

Value	Code System	Usage	Description	Comment
NIC	HL70396	Р	Nursing Interventions Classification	
99zzz or L	HL70396	Р	Local general code (where z is an alphanumeric character)	
SNM3	HL70396	Р	SNOMED International	
C5	HL70396	Р	CPT-5	

Value	Code System	Usage	Description	Comment
W1	HL70396	Р	WHO record # drug codes (6 digit)	
CPTM	HL70396	Р	CPT Modifier Code	
ENZC	HL70396	Р	Enzyme Codes	
HPC	HL70396	Р	CMS (formerly HCFA) Procedure Codes (HCPCS)	
ICD10AM	HL70396	Р	ICD-10 Australian modification	
IUPP	HL70396	Р	IUPAC/IFCC Property Codes	
MDDX	HL70396	Р	Medispan Diagnostic Codes	
OHA	HL70396	Р	Omaha System	
ART	HL70396	Р	WHO Adverse Reaction Terms	
UMD	HL70396	Р	MDNS	
CDCA	HL70396	Р	CDC Analyte Codes	
WC	HL70396	Р	WHO ATC	
DCM	HL70396	Р	DICOM Controlled Terminology	
FDK	HL70396	Р	FDA K10	
HCPT	HL70396	Р	Health Care Provider Taxonomy	
19	HL70396	Р	ICD9	
ICS	HL70396	Р	ICCS	
JJ1017	HL70396	Р	Japanese Image Examination Cache	
MEDX	HL70396	Р	Medical Economics Diagnostic Codes	
NDA	HL70396	Р	NANDA	
SDM	HL70396	Р	SNOMED- DICOM Microglossary	
ATC	HL70396	Р	American Type Culture Collection	
UPIN	HL70396	Р	UPIN	
CE	HL70396	Р	CEN ECG diagnostic codes	
E6	HL70396	Р	Euclides Lab method codes	
HL7nnnn	HL70396	Р	HL7 Defined Codes where nnnn is the HL7 table number	,
IBTnnnn	HL70396	Р	ISBT 128 codes where nnnn specifies a specific table within ISBT 128.	
ISOnnnn	HL70396	Р	ISO Defined Codes where nnnn is the ISO table number	
MCD	HL70396	Р	Medicaid	
NPI	HL70396	Р	National Provider Identifier	
ACR	HL70396	Р	American College of Radiology finding codes	
SNT	HL70396	Р	SNOMED topology codes (anatomic sites)	
CAS	HL70396	Р	Chemical abstract codes	

Value	Code System	Usage	Description	Comment
W2	HL70396	Р	WHO record # drug codes (8 digit)	
CST	HL70396	Р	COSTART	
FDDC	HL70396	Р	First DataBank Drug Codes	
I10	HL70396	Р	ICD-10	
ICD10CA	HL70396	Р	ICD-10 Canada	
JC10	HL70396	Р	JLAC/JSLM, nationwide laboratory code	
MEDC	HL70396	Р	Medical Economics Drug Codes	
POS	HL70396	Р	POS Codes	
AS4	HL70396	Р	ASTM E1238/ E1467 Universal	
UML	HL70396	Р	Unified Medical Language	
CDCM	HL70396	Р	CDC Methods/Instruments Codes	
E	HL70396	Р	EUCLIDES	
HB	HL70396	Р	HIBCC	
HHC	HL70396	Р	Home Health Care	
I9C	HL70396	Р	ICD-9CM	
ICSD	HL70396	Р	International Classification of Sleep Disorders	
LB	HL70396	Р	Local billing code	
MGPI	HL70396	Р	Medispan GPI	
NDC	HL70396	Р	National drug codes	
SNM	HL70396	Р	Systemized Nomenclature of Medicine (SNOMED)	
C4	HL70396	Р	CPT-4	
USPS	HL70396	Р	United States Postal Service	
CLP	HL70396	Р	CLIP	
E7	HL70396	Р	Euclides Lab equipment codes	
HOT	HL70396	Р	Japanese Nationwide Medicine Code	
IC2	HL70396	Р	ICHPPC-2	
IUPC	HL70396	Р	IUPAC/IFCC Component Codes	
MCR	HL70396	Р	Medicare	
NUBC	HL70396	Р	National Uniform Billing Committee Code	
ANS+	HL70396	Р	HL7 set of units of measure	
UC	HL70396	Р	UCDS	
CD2	HL70396	Р	CDT-2 Codes	
W4	HL70396	Р	WHO record # code with ASTM extension	
CVX	HL70396	Р	CDC Vaccine Codes	
FDDX	HL70396	Р	First DataBank Diagnostic Codes	

Value	Code System	Usage	Description	Comment
I10P	HL70396	Р	ICD-10 Procedure Codes	
ICDO	HL70396	Р	International Classification of Diseases for Oncology	
JC8	HL70396	Р	Japanese Chemistry	
MEDR	HL70396	Р	Medical Dictionary for Drug Regulatory Affairs (MEDDRA)	
RC	HL70396	Р	Read Classification	
AS4E	HL70396	Р	AS4 Neurophysiology Codes	
UPC	HL70396	Р	Universal Product Code	
CDS	HL70396	Р	CDC Surveillance	
E5	HL70396	Р	Euclides quantity codes	
HCPCS	HL70396	Р	CMS (formerly HCFA) Common Procedure Coding System	
HI	HL70396	Р	Health Outcomes	
IBT	HL70396	Р	ISBT	
ISO+	HL70396	Р	ISO 2955.83 (units of measure) with HL7 extensions	
LN	HL70396	Р	Logical Observation Identifier Names and Codes (LOINC®)	
MVX	HL70396	Р	CDC Vaccine Manufacturer Codes	

3.4.20 <u>0443 - PROVIDER ROLE</u>

Codes

Value	Code System	Usage	Description	Comment
AT	HL70443	Р	Attending	
PP	HL70443	Р	Primary Care Provider	
CP	HL70443	Р	Consulting Provider	
RP	HL70443	Р	Referring Provider	
AD	HL70443	Р	Admitting	
FHCP	HL70443	Р	Family Health Care Professional	
RT	HL70443	Р	Referred to Provider	

3.4.21 <u>0516 - ERROR SEVERITY</u>

Value	Code System	Usage	Description	Comment
I	HL70516	Р	Information	
W	HL70516	Р	Warning	

Value	Code System	Usage	Description	Comment
E	HL70516	Р	Error	

3.4.22 NHSNHEALTHCARESERVICELOCATIONCODE - HEALTHCARE SERVICE LOCATION (NHSN)

NHSN's value set for healthcare service location. NOTE: This value set is no longer maintained by NHSN. Due to this, there will be no more updates made on this value set.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.13.19

Value	Code System	Usage	Description	Comment
1162-7	HSLOC	Р	24-Hour observation area	
1184-1	HSLOC	Р	Administrative area	
1210-4	HSLOC	Р	Adult Mixed Acuity Unit	
1099-1	HSLOC	Р	Adult step down unit [post-critical care]	
1110-6	HSLOC	Р	Allergy clinic	
1166-8	HSLOC	Р	Ambulatory surgical setting	
1212-0	HSLOC	Р	Any Age Mixed Acuity Unit	
1106-4	HSLOC	Р	Assisted living area	
1145-2	HSLOC	Р	Behavioral health clinic	
1185-8	HSLOC	Р	Blood bank	
1195-7	HSLOC	Р	Blood collection [Blood drive campaign]	
1147-8	HSLOC	Р	Blood collection center	
1022-3	HSLOC	Р	Bone marrow transplant unit	
1026-4	HSLOC	Р	Burn critical care unit	
1005-8	HSLOC	Р	Cardiac catheterization lab	
1112-2	HSLOC	Р	Cardiac rehabilitation center	
1113-0	HSLOC	Р	Cardiology clinic	
1186-6	HSLOC	Р	Central sterile supply	
1187-4	HSLOC	Р	Central trash area	
1095-9	HSLOC	Р	Cesarean section room/suite	
1011-6	HSLOC	Р	Clinical chemistry	
1010-8	HSLOC	Р	Clinical laboratory	
1148-6	HSLOC	Р	Continence clinic	
1115-5	HSLOC	Р	Dermatology clinic	
1198-1	HSLOC	Р	Dialysis SCA	
1207-0	HSLOC	Р	Donor Apheresis Center	
1108-0	HSLOC	Р	Emergency department	

Value	Code System	Usage	Description	Comment
1116-3	HSLOC	Р	Endocrinology clinic	
1007-4	HSLOC	Р	Endoscopy lab	
1188-2	HSLOC	Р	Facility grounds	
1117-1	HSLOC	Р	Family medicine clinic	
1206-2	HSLOC	Р	Float	
1118-9	HSLOC	Р	Gastroenterology clinic	
1120-5	HSLOC	Р	General internal medicine clinic	
1121-3	HSLOC	Р	Gynecology clinic	
1012-4	HSLOC	Р	Hematology	
1200-5	HSLOC	Р	Hematology/oncology clinic	
1088-4	HSLOC	Р	Hematology/Oncology SCA	
1013-2	HSLOC	Р	Histology/Surgical pathology	
1161-9	HSLOC	Р	Holistic medicine center	
1194-0	HSLOC	Р	Home-based hospice	
1182-5	HSLOC	Р	Housekeeping/environmental services	
1017-3	HSLOC	Р	Hyperbaric oxygen center	
1018-1	HSLOC	Р	Infusion center	
1071-0	HSLOC	Р	Inpatient acute stroke ward	
1075-1	HSLOC	Р	Inpatient adolescent behavioral health ward	
1205-4	HSLOC	Р	Inpatient antenatal care ward	
1051-2	HSLOC	Р	Inpatient behavioral Health/Psych Ward	
1052-0	HSLOC	Р	Inpatient burn ward	
1053-8	HSLOC	Р	Inpatient ear/nose/throat ward	
1054-6	HSLOC	Р	Inpatient gastrointestinal ward	
1055-3	HSLOC	Р	Inpatient genitourinary ward	
1056-1	HSLOC	Р	Inpatient gerontology ward	
1057-9	HSLOC	Р	Inpatient gynecology ward	
1165-0	HSLOC	Р	Inpatient hospice	
1171-8	HSLOC	Р	Inpatient jail unit	
1060-3	HSLOC	Р	Inpatient medical ward	
1061-1	HSLOC	Р	Inpatient medical/surgical ward	
1062-9	HSLOC	Р	Inpatient neurology ward	
1063-7	HSLOC	Р	Inpatient neurosurgical ward	
1096-7	HSLOC	Р	Inpatient operating room/suite	
1064-5	HSLOC	Р	Inpatient ophthalmology ward	
1066-0	HSLOC	Р	Inpatient orthopedic trauma ward	
1065-2	HSLOC	Р	Inpatient orthopedic ward	

Value	Code System	Usage	Description	Comment
1077-7	HSLOC	Р	Inpatient pediatric behavioral health ward	
1078-5	HSLOC	Р	Inpatient pediatric burn ward	
1079-3	HSLOC	Р	Inpatient pediatric ear, nose, throat ward	
1080-1	HSLOC	Р	Inpatient pediatric genitourinary ward	
1076-9	HSLOC	Р	Inpatient pediatric medical ward	
1081-9	HSLOC	Р	Inpatient pediatric medical/surgical ward	
1082-7	HSLOC	Р	Inpatient pediatric neurology ward	
1083-5	HSLOC	Р	Inpatient pediatric neurosurgical ward	
1084-3	HSLOC	Р	Inpatient pediatric orthopedic ward	
1085-0	HSLOC	Р	Inpatient pediatric rehabilitation ward	
1086-8	HSLOC	Р	Inpatient pediatric surgical ward	
1067-8	HSLOC	Р	Inpatient plastic surgery ward	
1068-6	HSLOC	Р	Inpatient postpartum ward	
1069-4	HSLOC	Р	Inpatient pulmonary ward	
1070-2	HSLOC	Р	Inpatient rehabilitation ward	
1172-6	HSLOC	Р	Inpatient school infirmary	
1072-8	HSLOC	Р	Inpatient surgical ward	
1073-6	HSLOC	Р	Inpatient vascular surgery ward	
1038-9	HSLOC	Р	Inpatient well baby nursery [Level I]	
1170-0	HSLOC	Р	Institutional infirmary	
1203-9	HSLOC	Р	Interventional radiology	
1058-7	HSLOC	Р	Labor and delivery ward	
1059-5	HSLOC	Р	Labor, Delivery, Recovery, Postpartum suite [LDRP]	
1183-3	HSLOC	Р	Laundry room	
1204-7	HSLOC	Р	Location outside facility	
1090-0	HSLOC	Р	Long-term acute care [LTAC]	
1103-1	HSLOC	Р	Long-Term care Alzheimer's unit	
1104-9	HSLOC	Р	Long-Term care behavioral health/psych unit	
1105-6	HSLOC	Р	Long-Term care rehabilitation unit	
1102-3	HSLOC	Р	Long-Term care unit	
1028-0	HSLOC	Р	Medical cardiac critical care unit	
1027-2	HSLOC	Р	Medical critical care unit	
1122-1	HSLOC	Р	Medical genetics clinic	
1029-8	HSLOC	Р	Medical/Surgical critical care unit	
1014-0	HSLOC	Р	Microbiology	
1176-7	HSLOC	Р	Mobile blood collection center	

Value C	Code System	Usage	Description	Comment
1174-2 F	HSLOC	Р	Mobile emergency services/EMS	
1175-9 F	HSLOC	Р	Mobile MRI/CT	
1189-0 F	HSLOC	Р	Morgue/Autopsy room	
1039-7 F	HSLOC	Р	Neonatal critical care unit [Level II/III]	
1040-5 F	HSLOC	Р	Neonatal critical care unit [Level III]	
1135-3 F	HSLOC	Р	Nephrology clinic	
1123-9 F	HSLOC	Р	Neurology clinic	
1035-5 F	HSLOC	Р	Neurology critical care and stroke unit	
1031-4 F	HSLOC	Р	Neurosurgical critical care unit	
1151-0 F	HSLOC	Р	Occupational health clinic	
1152-8	HSLOC	Р	Occupational therapy clinic	
1124-7 H	HSLOC	Р	Opthalmology clinic	
1125-4 H	HSLOC	Р	Orthopedics clinic	
1149-4 F	HSLOC	Р	Ostomy clinic	
1126-2	HSLOC	Р	Otorhinolaryngology clinic	
1150-2	HSLOC	Р	Outpatient dental clinic	
1153-6	HSLOC	Р	Outpatient hemodialysis clinic	
1154-4 H	HSLOC	Р	Outpatient HIV clinic	
1167-6	HSLOC	Р	Outpatient pediatric surgery center	
1168-4	HSLOC	Р	Outpatient plastic surgery center	
1155-1 H	HSLOC	Р	Outpatient rehabilitation clinic	
1169-2	HSLOC	Р	Outpatient surgery recovery room/post- anesthesia care unit	
1127-0 F	HSLOC	Р	Pain clinic	
1192-4 F	HSLOC	Р	Patient's residence [Home care]	
1146-0 H	HSLOC	P	Pediatric behavioral health clinic	
1023-1 H	HSLOC	Р	Pediatric bone marrow transplant unit	
1042-1 H	HSLOC	P	Pediatric burn critical care unit	
1129-6	HSLOC	Р	Pediatric cardiology clinic	
1128-8	HSLOC	Р	Pediatric clinic	
1130-4	HSLOC	Р	Pediatric dental clinic	
1131-2	HSLOC	Р	Pediatric dermatology clinic	
1132-0 H	HSLOC	Р	Pediatric diabetes/endocrinology clinic	
1091-8	HSLOC	Р	Pediatric dialysis SCA	
1109-8	HSLOC	Р	Pediatric emergency department	
1119-7	HSLOC	Р	Pediatric gastroenterology clinic	
1136-1 H	HSLOC	Р	Pediatric hematology/oncology clinic	

Value	Code System	Usage	Description	Comment
1089-2	HSLOC	Р	Pediatric hematology/oncology SCA	
1213-8	HSLOC	Р	Pediatric long-term acute care (LTAC)	
1044-7	HSLOC	Р	Pediatric medical critical care unit	
1045-4	HSLOC	Р	Pediatric medical/surgical critical care unit	
1211-2	HSLOC	Р	Pediatric Mixed Acuity Unit	
1137-9	HSLOC	Р	Pediatric nephrology clinic	
1046-2	HSLOC	Р	Pediatric neurosurgical critical care unit	
1133-8	HSLOC	Р	Pediatric orthopedic clinic	
1047-0	HSLOC	Р	Pediatric respiratory critical care unit	
1138-7	HSLOC	Р	Pediatric rheumatology clinic	
1134-6	HSLOC	Р	Pediatric scoliosis clinic	
1093-4	HSLOC	Р	Pediatric solid organ transplant SCA	
1100-7	HSLOC	Р	Pediatric step-down unit [post-critical care]	
1043-9	HSLOC	Р	Pediatric surgical cardiothoracic critical care unit	
1048-8	HSLOC	Р	Pediatric surgical critical care unit	
1049-6	HSLOC	Р	Pediatric trauma critical care unit	
1074-4	HSLOC	Р	Pediatric ward	
1179-1	HSLOC	Р	Pharmacy	
1181-7	HSLOC	Р	Physical plant operations center	
1202-1	HSLOC	Р	Physical therapy clinic	
1140-3	HSLOC	Р	Podiatry clinic	
1097-5	HSLOC	Р	Post-Anesthesia care unit/recovery Room	
1156-9	HSLOC	Р	Prenatal clinic	
1034-8	HSLOC	Р	Prenatal critical care unit	
1141-1	HSLOC	Р	Provider's office	
1180-9	HSLOC	Р	Public area in healthcare facility	
1157-7	HSLOC	Р	Pulmonary clinic	
1009-0	HSLOC	Р	Pulmonary function testing	
1008-2	HSLOC	Р	Radiology diagnostics or therapeutics unit	
1033-0	HSLOC	Р	Respiratory critical care unit	
1142-9	HSLOC	Р	Rheumatology clinic	
1201-3	HSLOC	Р	Scoliosis clinic	
1015-7	HSLOC	Р	Serology lab	
1020-7	HSLOC	Р	Sleep disorders unit	
1190-8	HSLOC	Р	Soiled utility area	
1092-6	HSLOC	Р	Solid organ transplant SCA	

Value	Code System	Usage	Description	Comment
1196-5	HSLOC	Р	Specimen collection area [Community]	
1019-9	HSLOC	Р	Specimen collection area [Healthcare]	
1158-5	HSLOC	Р	Speech therapy clinic	
1041-3	HSLOC	Р	Step down neonatal ICU [Level II]	
1143-7	HSLOC	Р	Surgery clinic	
1032-2	HSLOC	Р	Surgical cardiothoracic critical care unit	
1030-6	HSLOC	Р	Surgical critical care unit	
1208-8	HSLOC	Р	Telemetry Unit	
1178-3	HSLOC	Р	Transport services	
1025-6	HSLOC	Р	Trauma critical care unit	
1209-6	HSLOC	Р	Treatment Room	
1160-1	HSLOC	Р	Urgent care center	
1164-3	HSLOC	Р	Ventilator dependent unit	
1016-5	HSLOC	Р	Virology lab	
1139-5	HSLOC	Р	Well baby clinic	
1144-5	HSLOC	Р	Wound clinic	
1159-3	HSLOC	Р	Wound ostomy continence clinic	

3.4.23 PH_HEALTHCARESERVICELOC_HL7_V3 - HEALTHCARE SERVICE LOCATION (HL7)

Reference URL: https://phinvads.cdc.gov/vads/ViewCodeSystem.action?id=2.16.840.1.113883.6.259

3.4.24 PHVS_ACKNOWLEDGMENTCODE_HL7_2X - ACKNOWLEDGMENT CODE (HL7)

Acknowledgment code indicating receipt of message. (See message processing rules. Refer to HL7 Table 0008 - Acknowledgment code for valid values.) Null flavors are not allowed.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.958

Value	Code System	Usage	Description	Comment
CA	HL70008	Р	Enhanced mode: Accept acknowledgment: Commit Accept	
CE	HL70008	Р	Enhanced mode: Accept acknowledgment: Commit Error	
CR	HL70008	Р	Enhanced mode: Accept acknowledgment: Commit Reject	
AA	HL70008	Р	Original mode: Application Accept - Enhanced mode: Application acknowledgment: Accept	

Value	Code System	Usage	Description	Comment
AE	HL70008	Р	Original mode: Application Error - Enhanced mode: Application acknowledgment: Error	
AR	HL70008	Р	Original mode: Application Reject - Enhanced mode: Application acknowledgment: Reject	

3.4.25 PHVS_ADDRESSTYPE_HL7_2X - ADDRESS TYPE (HL7)

Address Type

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.801

Codes

Value	Code System	Usage	Description	Comment
BA	HL70190	Р	Bad address	
N	HL70190	Р	Birth (nee) (birth address, not otherwise specified)	
BDL	HL70190	Р	Birth delivery location (address where birth occurred)	
F	HL70190	Р	Country Of Origin	
С	HL70190	Р	Current Or Temporary	
В	HL70190	Р	Firm/Business	
Н	HL70190	Р	Home	
L	HL70190	Р	Legal Address	
М	HL70190	Р	Mailing	
0	HL70190	Р	Office	
Р	HL70190	Р	Permanent	
RH	HL70190	Р	Registry home. Refers to the information system, typically managed by a public health agency, that stores patient information such as immunization histories or cancer data, regardless of where the patient obtains services.	
BR	HL70190	Р	Residence at birth (home address at time of birth)	

3.4.26 PHVS_ADMINISTRATIVEDIAGNOSIS_CDC_ICD-10CM - DIAGNOSIS (ICD-10 CM)

ICD-10 CM Administrative Diagnosis Codes used for billing purposes, Reason for Study, DG1 Diagnosis segments Keyword: ICD-10 CM

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7356

3.4.27 PHVS_ADMINISTRATIVEPROCEDURE_CDC_ICD-10PCS - PROCEDURE (ICD-10 PCS)

ICD-10 PCS Procedure Codes used for billing purposes, Reason for Study, PR1 Diagnosis segments

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7371

3.4.28 PHVS_ADMISSIONLEVELOFCARECODE_HL7_2X - ADMISSION LEVEL OF CARE (HL7)

HL7 version 2.5 User-Defined Table 0432 Admission Level of Care codes used in ADT messages

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.912

Codes

Value	Code System	Usage	Description	Comment
AC	HL70432	Р	Acute	
СН	HL70432	Р	Chronic	
CO	HL70432	Р	Comatose	
CR	HL70432	Р	Critical	
IM	HL70432	Р	Improved	
MO	HL70432	Р	Moribund	

3.4.29 PHVS_AGEUNIT_SYNDROMICSURVEILLANCE - AGE UNIT (SYNDROMIC SURVEILLANCE)

Unit corresponding to numeric value of patient age (e.g. Days, Month or Years) specific for syndromic surveillance

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3402

Value	Code System	Usage	Description	Comment
d	UCUM	Р	day	
mo	UCUM	Р	month	
UNK	NULLFL	Р	unknown	A proper value is applicable, but not known.
wk	UCUM	Р	week	
а	UCUM	Р	year	

3.4.30 PHVS_AGEUNIT_SYNDROMICSURVEILLANCE - AGE UNIT (SYNDROMIC SURVEILLANCE)

Unit corresponding to numeric value of patient age (e.g. Days, Month or Years) specific for syndromic surveillance

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3402

Codes

Value	Code System	Usage	Description	Comment
d	UCUM	Р	day	
mo	UCUM	Р	month	
UNK	NULLFL	Р	unknown	A proper value is applicable, but not known.
wk	UCUM	Р	week	
а	UCUM	Р	year	

3.4.31 PHVS BLOODPRESSUREUNIT UCUM - BLOOD PRESSURE UNIT

Units of measure for Blood Pressure

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.920

Codes

Value	Code System	Usage	Description	Comment
mm[Hg]	UCUM	IP .	Millimeters of Mercury [Blood Pressure Unit]	

3.4.32 PHVS BLOODPRESSUREUNIT UCUM - BLOOD PRESSURE UNIT

Units of measure for Blood Pressure

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.920

Codes

Value	Code System	Usage	Description	Comment
mm[Hg]	UCUM	IP .	Millimeters of Mercury [Blood Pressure Unit]	

3.4.33 PHVS_CAUSEOFDEATH_ICD-10_CDC - CAUSE OF DEATH (ICD-10)

The list provides ICD-10 codes and associated cause-of-death titles for the most detailed listing of causes of death. This list is maintained by CDC NCHS.????

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3593

3.4.34 PHVS_COUNTRY_ISO_3166-1 - COUNTRY

Codes representing country of origin, nationality, citizenship, address country

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.828

Value	Code System	Usage	Description	Comment
AFG	ISO3166_1	Р	AFGHANISTAN	
ALA	ISO3166_1	Р	ÅLAND ISLANDS	
ALB	ISO3166_1	Р	ALBANIA	
DZA	ISO3166_1	Р	ALGERIA	
ASM	ISO3166_1	Р	AMERICAN SAMOA	
AND	ISO3166_1	Р	ANDORRA	
AGO	ISO3166_1	Р	ANGOLA	
AIA	ISO3166_1	Р	ANGUILLA	
ATA	ISO3166_1	Р	ANTARCTICA	
ATG	ISO3166_1	Р	ANTIGUA AND BARBUDA	
ARG	ISO3166_1	Р	ARGENTINA	
ARM	ISO3166_1	Р	ARMENIA	
ABW	ISO3166_1	Р	ARUBA	
AUS	ISO3166_1	Р	AUSTRALIA	
AUT	ISO3166_1	Р	AUSTRIA	
AZE	ISO3166_1	Р	AZERBAIJAN	
BHS	ISO3166_1	Р	BAHAMAS	
BHR	ISO3166_1	Р	BAHRAIN	
BGD	ISO3166_1	Р	BANGLADESH	
BRB	ISO3166_1	Р	BARBADOS	
BLR	ISO3166_1	Р	BELARUS	
BEL	ISO3166_1	Р	BELGIUM	
BLZ	ISO3166_1	Р	BELIZE	
BEN	ISO3166_1	Р	BENIN	
BMU	ISO3166_1	Р	BERMUDA	
BTN	ISO3166_1	Р	BHUTAN	
BOL	ISO3166_1	Р	BOLIVIA	

Value	Code System	Usage	Description	Comment
BES	ISO3166_1	Р	BONAIRE, SINT EUSTATIUS and SABA	
BIH	ISO3166_1	Р	BOSNIA AND HERZEGOVINA	
BWA	ISO3166_1	Р	BOTSWANA	
BVT	ISO3166_1	Р	BOUVET ISLAND	
BRA	ISO3166_1	Р	BRAZIL	
IOT	ISO3166_1	Р	BRITISH INDIAN OCEAN TERRITORY	
BRN	ISO3166_1	Р	BRUNEI DARUSSALAM	
BGR	ISO3166_1	Р	BULGARIA	
BFA	ISO3166_1	Р	BURKINA FASO	
BDI	ISO3166_1	Р	BURUNDI	
KHM	ISO3166_1	Р	CAMBODIA	
CMR	ISO3166_1	Р	CAMEROON	
CAN	ISO3166_1	Р	CANADA	
CPV	ISO3166_1	Р	CAPE VERDE	
CYM	ISO3166_1	Р	CAYMAN ISLANDS	
CAF	ISO3166_1	Р	CENTRAL AFRICAN REPUBLIC	
TCD	ISO3166_1	Р	CHAD	
CHL	ISO3166_1	Р	CHILE	
CHN	ISO3166_1	Р	CHINA	
CXR	ISO3166_1	Р	CHRISTMAS ISLAND	
CCK	ISO3166_1	Р	COCOS (KEELING) ISLANDS	
COL	ISO3166_1	Р	COLOMBIA	
COM	ISO3166_1	Р	COMOROS	
COG	ISO3166_1	Р	CONGO	
COD	ISO3166_1	Р	CONGO, THE DEMOCRATIC REPUBLIC OF THE	
COK	ISO3166_1	Р	COOK ISLANDS	
CRI	ISO3166_1	Р	COSTA RICA	
CIV	ISO3166_1	Р	CÔTE D'IVOIRE	
HRV	ISO3166_1	Р	CROATIA	
CUB	ISO3166_1	Р	CUBA	
CUW	ISO3166_1	Р	CURACAO	
CYP	ISO3166_1	Р	CYPRUS	
CZE	ISO3166_1	Р	CZECH REPUBLIC	
DNK	ISO3166_1	Р	DENMARK	
DJI	ISO3166_1	Р	DJIBOUTI	
DMA	ISO3166_1	Р	DOMINICA	

Value	Code System	Usage	Description	Comment
DOM	ISO3166_1	Р	DOMINICAN REPUBLIC	
ECU	ISO3166_1	Р	ECUADOR	
EGY	ISO3166_1	Р	EGYPT	
SLV	ISO3166_1	Р	EL SALVADOR	
GNQ	ISO3166_1	Р	EQUATORIAL GUINEA	
ERI	ISO3166_1	Р	ERITREA	
EST	ISO3166_1	Р	ESTONIA	
ETH	ISO3166_1	Р	ETHIOPIA	
FLK	ISO3166_1	Р	FALKLAND ISLANDS (MALVINAS)	
FRO	ISO3166_1	Р	FAROE ISLANDS	
FJI	ISO3166_1	Р	FIJI	
FIN	ISO3166_1	Р	FINLAND	
FRA	ISO3166_1	Р	FRANCE	
GUF	ISO3166_1	Р	FRENCH GUIANA	
PYF	ISO3166_1	Р	FRENCH POLYNESIA	
ATF	ISO3166_1	Р	FRENCH SOUTHERN TERRITORIES	
GAB	ISO3166_1	Р	GABON	
GMB	ISO3166_1	Р	GAMBIA	
GEO	ISO3166_1	Р	GEORGIA	
DEU	ISO3166_1	Р	GERMANY	
GHA	ISO3166_1	Р	GHANA	
GIB	ISO3166_1	Р	GIBRALTAR	
GRC	ISO3166_1	Р	GREECE	
GRL	ISO3166_1	Р	GREENLAND	
GRD	ISO3166_1	Р	GRENADA	
GLP	ISO3166_1	Р	GUADELOUPE	
GUM	ISO3166_1	Р	GUAM	
GTM	ISO3166_1	Р	GUATEMALA	
GGY	ISO3166_1	Р	GUERNSEY	
GIN	ISO3166_1	Р	GUINEA	
GNB	ISO3166_1	Р	GUINEA-BISSAU	
GUY	ISO3166_1	Р	GUYANA	
HTI	ISO3166_1	Р	HAITI	
HMD	ISO3166_1	Р	HEARD ISLAND AND MCDONALD ISLANDS	
VAT	ISO3166_1	Р	HOLY SEE (VATICAN CITY STATE)	
HND	ISO3166_1	Р	HONDURAS	

Value	Code System	Usage	Description	Comment
HKG	ISO3166_1	Р	HONG KONG	
HUN	ISO3166_1	Р	HUNGARY	
ISL	ISO3166_1	Р	ICELAND	
IND	ISO3166_1	Р	INDIA	
IDN	ISO3166_1	Р	INDONESIA	
IRN	ISO3166_1	Р	IRAN, ISLAMIC REPUBLIC OF	
IRQ	ISO3166_1	Р	IRAQ	
IRL	ISO3166_1	Р	IRELAND	
IMN	ISO3166_1	Р	ISLE OF MAN	
ISR	ISO3166_1	Р	ISRAEL	
ITA	ISO3166_1	Р	ITALY	
JAM	ISO3166_1	Р	JAMAICA	
JPN	ISO3166_1	Р	JAPAN	
JEY	ISO3166_1	Р	JERSEY	
JOR	ISO3166_1	Р	JORDAN	
KAZ	ISO3166_1	Р	KAZAKHSTAN	
KEN	ISO3166_1	Р	KENYA	
KIR	ISO3166_1	Р	KIRIBATI	
PRK	ISO3166_1	Р	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	
KOR	ISO3166_1	Р	KOREA, REPUBLIC OF	
KWT	ISO3166_1	Р	KUWAIT	
KGZ	ISO3166_1	Р	KYRGYZSTAN	
LAO	ISO3166_1	Р	LAO PEOPLE'S DEMOCRATIC REPUBLIC	
LVA	ISO3166_1	Р	LATVIA	
LBN	ISO3166_1	Р	LEBANON	
LSO	ISO3166_1	Р	LESOTHO	
LBR	ISO3166_1	Р	LIBERIA	
LBY	ISO3166_1	Р	LIBYAN ARAB JAMAHIRIYA	
LIE	ISO3166_1	Р	LIECHTENSTEIN	
LTU	ISO3166_1	Р	LITHUANIA	
LUX	ISO3166_1	Р	LUXEMBOURG	
MAC	ISO3166_1	Р	MACAO	
MKD	ISO3166_1	Р	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF	
MDG	ISO3166_1	Р	MADAGASCAR	
MWI	ISO3166_1	Р	MALAWI	

Value	Code System	Usage	Description	Comment
MYS	ISO3166_1	Р	MALAYSIA	
MDV	ISO3166_1	Р	MALDIVES	
MLI	ISO3166_1	Р	MALI	
MLT	ISO3166_1	Р	MALTA	
MHL	ISO3166_1	Р	MARSHALL ISLANDS	
MTQ	ISO3166_1	Р	MARTINIQUE	
MRT	ISO3166_1	Р	MAURITANIA	
MUS	ISO3166_1	Р	MAURITIUS	
MYT	ISO3166_1	Р	MAYOTTE	
MEX	ISO3166_1	Р	MEXICO	
FSM	ISO3166_1	Р	MICRONESIA, FEDERATED STATES OF	
MDA	ISO3166_1	Р	MOLDOVA, REPUBLIC OF	
MCO	ISO3166_1	Р	MONACO	
MNG	ISO3166_1	Р	MONGOLIA	
MNE	ISO3166_1	Р	MONTENEGRO	
MSR	ISO3166_1	Р	MONTSERRAT	
MAR	ISO3166_1	Р	MOROCCO	
MOZ	ISO3166_1	Р	MOZAMBIQUE	
MMR	ISO3166_1	Р	MYANMAR	
NAM	ISO3166_1	Р	NAMIBIA	
NRU	ISO3166_1	Р	NAURU	
NPL	ISO3166_1	Р	NEPAL	
NLD	ISO3166_1	Р	NETHERLANDS	
NCL	ISO3166_1	Р	NEW CALEDONIA	
NZL	ISO3166_1	Р	NEW ZEALAND	
NIC	ISO3166_1	Р	NICARAGUA	
NER	ISO3166_1	Р	NIGER	
NGA	ISO3166_1	Р	NIGERIA	
NIU	ISO3166_1	Р	NIUE	
NFK	ISO3166_1	Р	NORFOLK ISLAND	
MNP	ISO3166_1	Р	NORTHERN MARIANA ISLANDS	
NOR	ISO3166_1	Р	NORWAY	
OMN	ISO3166_1	Р	OMAN	
ОТН	NULLFL	Р	other	Description:The actual value is not a member of the set of permitted data values in the

Value	Code System	Usage	Description	Comment
				constrained
PAK	ISO3166_1	Р	PAKISTAN	
PLW	ISO3166_1	Р	PALAU	
PSE	ISO3166_1	Р	PALESTINIAN TERRITORY, OCCUPIED)
PAN	ISO3166_1	Р	PANAMA	
PNG	ISO3166_1	Р	PAPUA NEW GUINEA	
PRY	ISO3166_1	Р	PARAGUAY	
PER	ISO3166_1	Р	PERU	
PHL	ISO3166_1	Р	PHILIPPINES	
PCN	ISO3166_1	Р	PITCAIRN	
POL	ISO3166_1	Р	POLAND	
PRT	ISO3166_1	Р	PORTUGAL	
PRI	ISO3166_1	Р	PUERTO RICO	
QAT	ISO3166_1	Р	QATAR	
REU	ISO3166_1	Р	RÉUNION	
ROU	ISO3166_1	Р	ROMANIA	
RUS	ISO3166_1	Р	RUSSIAN FEDERATION	
RWA	ISO3166_1	Р	RWANDA	
BLM	ISO3166_1	Р	SAINT BARTHÉLEMY	
SHN	ISO3166_1	Р	SAINT HELENA	
KNA	ISO3166_1	Р	SAINT KITTS AND NEVIS	
LCA	ISO3166_1	Р	SAINT LUCIA	
MAF	ISO3166_1	Р	SAINT MARTIN (FRENCH PART)	
SPM	ISO3166_1	Р	SAINT PIERRE AND MIQUELON	
VCT	ISO3166_1	Р	SAINT VINCENT AND THE GRENADINES	
WSM	ISO3166_1	Р	SAMOA	
SMR	ISO3166_1	Р	SAN MARINO	
STP	ISO3166_1	Р	SAO TOME AND PRINCIPE	
SAU	ISO3166_1	Р	SAUDI ARABIA	
SEN	ISO3166_1	Р	SENEGAL	
SRB	ISO3166_1	Р	SERBIA	
SYC	ISO3166_1	Р	SEYCHELLES	
SLE	ISO3166_1	Р	SIERRA LEONE	
SGP	ISO3166_1	Р	SINGAPORE	
SXM	ISO3166_1	Р	SINT MAARTEN (DUTCH PART)	
SVK	ISO3166_1	Р	SLOVAKIA	

Value	Code System	Usage	Description	Comment
SVN	ISO3166_1	Р	SLOVENIA	
SLB	ISO3166_1	Р	SOLOMON ISLANDS	
SOM	ISO3166_1	Р	SOMALIA	
ZAF	ISO3166_1	Р	SOUTH AFRICA	
SGS	ISO3166_1	Р	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	
SSD	ISO3166_1	Р	South Sudan	
ESP	ISO3166_1	Р	SPAIN	
LKA	ISO3166_1	Р	SRI LANKA	
SDN	ISO3166_1	Р	SUDAN	
SUR	ISO3166_1	Р	SURINAME	
SJM	ISO3166_1	Р	SVALBARD AND JAN MAYEN	
SWZ	ISO3166_1	Р	SWAZILAND	
SWE	ISO3166_1	Р	SWEDEN	
CHE	ISO3166_1	Р	SWITZERLAND	
SYR	ISO3166_1	Р	SYRIAN ARAB REPUBLIC	
TWN	ISO3166_1	Р	TAIWAN, PROVINCE OF CHINA	
TJK	ISO3166_1	Р	TAJIKISTAN	
TZA	ISO3166_1	Р	TANZANIA, UNITED REPUBLIC OF	
THA	ISO3166_1	Р	THAILAND	
TLS	ISO3166_1	Р	TIMOR-LESTE	
TGO	ISO3166_1	Р	TOGO	
TKL	ISO3166_1	Р	TOKELAU	
TON	ISO3166_1	Р	TONGA	
TTO	ISO3166_1	Р	TRINIDAD AND TOBAGO	
TUN	ISO3166_1	Р	TUNISIA	
TUR	ISO3166_1	Р	TURKEY	
TKM	ISO3166_1	Р	TURKMENISTAN	
TCA	ISO3166_1	Р	TURKS AND CAICOS ISLANDS	
TUV	ISO3166_1	Р	TUVALU	
UGA	ISO3166_1	Р	UGANDA	
UKR	ISO3166_1	Р	UKRAINE	
ARE	ISO3166_1	Р	UNITED ARAB EMIRATES	
GBR	ISO3166_1	Р	UNITED KINGDOM	
USA	ISO3166_1	Р	UNITED STATES	
UMI	ISO3166_1	Р	UNITED STATES MINOR OUTLYING ISLANDS	

Value	Code System	Usage	Description	Comment
UNK	NULLFL	Р	unknown	A proper value is applicable, but not known.
URY	ISO3166_1	Р	URUGUAY	
UZB	ISO3166_1	Р	UZBEKISTAN	
VUT	ISO3166_1	Р	VANUATU	
VEN	ISO3166_1	Р	VENEZUELA	
VNM	ISO3166_1	Р	VIET NAM	
VGB	ISO3166_1	Р	VIRGIN ISLANDS, BRITISH	
VIR	ISO3166_1	Р	VIRGIN ISLANDS, U.S.	
WLF	ISO3166_1	Р	WALLIS AND FUTUNA	
ESH	ISO3166_1	Р	WESTERN SAHARA	
YEM	ISO3166_1	Р	YEMEN	
ZMB	ISO3166_1	Р	ZAMBIA	
ZWE	ISO3166_1	Р	ZIMBABWE	

3.4.35 PHVS_COUNTY_FIPS_6-4 - COUNTY

Codes representing county of origin, address county, reporting county

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.829

3.4.36 PHVS_DIAGNOSISTYPE_HL7_2X - DIAGNOSIS TYPE (HL7)

A code from HL7 2.5 User-defined Table 0052 - Diagnosis Type that identifies the type of diagnosis being sent (Admitting, Working, Final).

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.827

Codes

Value	Code System	Usage	Description	Comment
Α	HL70052	Р	Admitting	
F	HL70052	Р	Final	
W	HL70052	Р	Working	

3.4.37 PHVS_DISCHARGEDISPOSITION_HL7_2X - DISCHARGE DISPOSITION (HL7)

The disposition of the patient at time of discharge (i.e., discharged to home, expired, etc.). Uses User-defined Table 0112 - Discharge Disposition; this field is used on UB92 FL22.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.915

Codes Value	Code System	Usage	Description	Comment
01	HL70112	Р	Discharged to home care or self-care (routine discharge)	
02	HL70112	Р	Discharged/transferred to a short term general hospital for inpatient care	
03	HL70112	Р	Discharged/transferred to skilled nursing facility (SNF) with Medicare certification in anticipation of covered skilled care	
04	HL70112	Р	Discharged/transferred to a facility that provides custodial or supportive care	
05	HL70112	Р	Discharged/transferred to a designated cancer center or children's hospital	
06	HL70112	Р	Discharged/transferred to home under care of organized home health service organization in anticipation of covered skilled care	
07	HL70112	Р	Left against medical advice or discontinued care	
08	HL70112	Р	Discharged/transferred to home under care of a Home IV provider	
09	HL70112	Р	Admitted as an inpatient to this hospital	
10	HL70112	Р	Discharge to be defined at state level, if necessary	
11	HL70112	Р	Discharge to be defined at state level, if necessary	
12	HL70112	Р	Discharge to be defined at state level, if necessary	
13	HL70112	Р	Discharge to be defined at state level, if necessary	
14	HL70112	Р	Discharge to be defined at state level, if necessary	
15	HL70112	Р	Discharge to be defined at state level, if necessary	
16	HL70112	Р	Discharge to be defined at state level, if necessary	
17	HL70112	Р	Discharge to be defined at state level, if necessary	
18	HL70112	Р	Discharge to be defined at state level, if	

Value	Code System	Usage	Description	Comment
			necessary	
19	HL70112	Р	Discharge to be defined at state level, if necessary	
20	HL70112	Р	Expired	
21	HL70112	Р	Discharged/transferred to court/law enforcement	
22	HL70112	Р	Expired to be defined at state level, if necessary	
23	HL70112	Р	Expired to be defined at state level, if necessary	
24	HL70112	Р	Expired to be defined at state level, if necessary	
25	HL70112	Р	Expired to be defined at state level, if necessary	
26	HL70112	Р	Expired to be defined at state level, if necessary	
27	HL70112	Р	Expired to be defined at state level, if necessary	
28	HL70112	Р	Expired to be defined at state level, if necessary	
29	HL70112	Р	Expired to be defined at state level, if necessary	
30	HL70112	Р	Still Patient	
31	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
32	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
33	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
34	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
35	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
36	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
37	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
38	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
39	HL70112	Р	Still patient to be defined at state level, if necessary (i.e. still a patient)	
40	HL70112	Р	Expired (i.e. died) at home	

Value	Code System	Usage	Description	Comment
41	HL70112	Р	Expired (i.e. died) in a medical facility; e.g., hospital, SNF, ICF, or free standing hospice	
42	HL70112	Р	Expired - place unknown	
43	HL70112	Р	Discharged/transferred to a federal health care facility	
44	HL70112	Р	Reserved for national assignment	
45	HL70112	Р	Reserved for national assignment	
46	HL70112	Р	Reserved for national assignment	
47	HL70112	Р	Reserved for national assignment	
48	HL70112	Р	Reserved for national assignment	
49	HL70112	Р	Reserved for national assignment	
50	HL70112	Р	Hospice - home	
51	HL70112	Р	Hospice - medical facility (certified) providing hospice level of care	
52	HL70112	Р	Reserved for national assignment	
53	HL70112	Р	Reserved for national assignment	
54	HL70112	Р	Reserved for national assignment	
55	HL70112	Р	Reserved for national assignment	
56	HL70112	Р	Reserved for national assignment	
57	HL70112	Р	Reserved for national assignment	
58	HL70112	Р	Reserved for national assignment	
59	HL70112	Р	Reserved for national assignment	
60	HL70112	Р	Reserved for national assignment	
61	HL70112	Р	Discharged/transferred to hospital-based Medicare approved swing bed	
62	HL70112	Р	Discharged/transferred to an inpatient rehabilitation facility (IRF) including rehabilitation distinct part units of a hospital	
63	HL70112	Р	Discharged/transferred to a Medicare certified long term care hospital (LTCH)	
64	HL70112	Р	Discharged/transferred to a nursing facility certified under Medicaid but not certified under Medicare	
65	HL70112	Р	Discharged/transferred to a psychiatric hospital or psychiatric distinct part unit of a hospital	
66	HL70112	Р	Discharged/transferred to a Critical Access Hospital (CAH)	
67	HL70112	Р	Reserved for national assignment	
68	HL70112	Р	Reserved for national assignment	

Value	Code System	Usage	Description	Comment
69	HL70112	Р	Reserved for national assignment	
70	HL70112	Р	Discharged/transferred to another type of health care institution not defined elsewhere in this code list (See Code 05)	
71	HL70112	Р	Reserved for national assignment (Discontinued effective 4/1/03)	
72	HL70112	Р	Reserved for national assignment (Discontinued effective 4/1/03)	
73	HL70112	Р	Reserved for national assignment	
74	HL70112	Р	Reserved for national assignment	
75	HL70112	Р	Reserved for national assignment	
76	HL70112	Р	Reserved for national assignment	
77	HL70112	Р	Reserved for national assignment	
78	HL70112	Р	Reserved for national assignment	
79	HL70112	Р	Reserved for national assignment	
80	HL70112	Р	Reserved for national assignment	
81	HL70112	Р	Reserved for national assignment	
82	HL70112	Р	Reserved for national assignment	
83	HL70112	Р	Reserved for national assignment	
84	HL70112	Р	Reserved for national assignment	
85	HL70112	Р	Reserved for national assignment	
86	HL70112	Р	Reserved for national assignment	
87	HL70112	Р	Reserved for national assignment	
88	HL70112	Р	Reserved for national assignment	
89	HL70112	Р	Reserved for national assignment	
90	HL70112	Р	Reserved for national assignment	
91	HL70112	Р	Reserved for national assignment	
92	HL70112	Р	Reserved for national assignment	
93	HL70112	Р	Reserved for national assignment	
94	HL70112	Р	Reserved for national assignment	
95	HL70112	Р	Reserved for national assignment	
96	HL70112	Р	Reserved for national assignment	
97	HL70112	Р	Reserved for national assignment	
98	HL70112	Р	Reserved for national assignment	
99	HL70112	Р	Reserved for national assignment	
100	HL70112	Р	Discharged for Other Reasons	
101	HL70112	Р	Discharged to Care of Family/Friend(s)	
102	HL70112	Р	Discharged to Care of Paid Caregiver	

Value	Code System	Usage	Description	Comment
103	HL70112	Р	Discharged to Court/ Law Enforcement/Jail	
104	HL70112	Р	Discharged to Other Facility per Legal Guidelines	
105	HL70112	Р	Discharge required by Carrier Change	
106	HL70112	Р	Internal Transfer per Legal Guidelines	
107	HL70112	Р	Other Home Care	
108	HL70112	Р	Regular Discharge with Follow-up	
109	HL70112	Р	Return Transfer	

3.4.38 PHVS DISEASE CDC - DISEASE

Disease or Disorder - 64572001 SNOMED Domain

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.909

Disease or Disorder - 64572001 SNOMED Domain

3.4.39 PHVS_DRUGPRODUCT_FDA_NDC - DRUG PRODUCT (NDC)

Commercial Drug Products

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1105

3.4.40 PHVS_EMERGENCYDEPARTMENTACUITY_CDC - EMERGENCY DEPARTMENT ACUITY

Level of care required in the Emergency Department

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.921

Value	Code System	Usage	Description	Comment
UNK	NULLFL	Р	unknown	A proper value is applicable, but not known.
10	CDCEDACUITY	Р	Requires immediate evaluation or treatment	
20	CDCEDACUITY	Р	Requires prompt evaluation or treatment	
30	CDCEDACUITY	Р	Time to evaluation or treatment not critical	

3.4.41 PHVS EMERGENCYSEVERITYINDEXACUITY CDC - EMERGENCY SEVERITY INDEX - ACUITY

The Emergency Severity Index (ESI) is a tool for use in emergency department (ED) triage. The ESI triage algorithm yields rapid, reproducible, and clinically relevant stratification of patients into five groups, from level 1 (most urgent) to level 5 (least urgent). The ESI provides a method for categorizing ED patients by both acuity and resource needs. (https://www.ahrq.gov/professionals/systems/hospital/esi/index.html) Based upon AHRQ 2012 Edition on the Implementation Handbook - version 4. ??

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7776

Codes

Value	Code System	Usage	Description	Comment
1	CDCEDACUITY	Р	Resuscitation	Immediate, life-saving intervention required without delay.
2	CDCEDACUITY	P	Emergent	High risk of deterioration, or signs of a time-critical problem.
3	CDCEDACUITY	Р	Urgent	Stable, with multiple types of resources needed to investigate or treat (such as lab tests plus X-ray imaging).
4	CDCEDACUITY	Р	Less Urgent	Stable, with only one type of resource anticipated (such as only an X-ray, or only sutures).
5	CDCEDACUITY	Р	Nonurgent	Stable, with no resources anticipated except oral or topical medications, or prescriptions

3.4.42 PHVS_EMERGENCYSEVERITYINDEXACUITY_CDC - EMERGENCY SEVERITY INDEX - ACUITY

The Emergency Severity Index (ESI) is a tool for use in emergency department (ED) triage. The ESI triage algorithm yields rapid, reproducible, and clinically relevant stratification of patients into five groups, from level 1 (most urgent) to level 5 (least urgent). The ESI provides a method for categorizing ED patients by both acuity and resource needs. (https://www.ahrq.gov/professionals/systems/hospital/esi/index.html) Based upon AHRQ 2012 Edition on the Implementation Handbook - version 4.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7776

Codes

Value	Code System	Usage	Description	Comment
1	CDCEDACUITY	Р	Resuscitation	Immediate, life-saving intervention required without delay.
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4	CDCEDACUITY	Р	Less Urgent	Stable, with only one type of resource anticipated (such as only an X-ray, or only sutures).
5	CDCEDACUITY	Р	Nonurgent	Stable, with no resources anticipated except oral or topical medications, or prescriptions

3.4.43 PHVS_ETHNICITYGROUP_CDC - ETHNICITY GROUP

Whether the patient is hispanic or not

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.837

Codes

Value	Code System	Usage	Description	Comment
2135-2	CDCREC	Р	Hispanic or Latino	
2186-5	CDCREC	Р	Not Hispanic or Latino	

3.4.44 PHVS_EVALUATIONFINDING_CDC - EVALUATION FINDING

Evaluation finding concepts could be used in OBX-5 as lab test result finding. This has been created based upon SNOMED domain (Evaluation Finding - 441742003). Keyword: Lab Test Result.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3359

3.4.45 PHVS_EVENTTYPE_SYNDROMICSURVEILLANCE - EVENT TYPE (SYNDROMIC SURVEILLANCE)

List of Table 0003:?Event Types associated with Syndromic Surveillance IG.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6048

Codes

Value	Code System	Usage	Description	Comment
A03	HL70003	Р	ADT/ACK - Discharge/end visit	
A04	HL70003	Р	ADT/ACK - Register a patient	
A08	HL70003	Р	ADT/ACK - Update patient information	
A01	HL70003	Р	ADT/ACK - Admit/visit notification	

3.4.46 PHVS_FACILITYVISITTYPE_SYNDROMICSURVEILLANCE - FACILITY / VISIT TYPE (SYNDROMIC SURVEILLANCE)

Type of facility that the patient visited for treatment.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3401

Codes

Value	Code System	Usage	Description	Comment
261QE0002X	HCPTNUCC	Р	Emergency Care [Ambulatory Health Care Facilities\Clinic/Center]	Emergency Care [Ambulatory Health Care Facilities\Clinic/Center]
1021-5	HSLOC	Р	Inpatient practice setting	A patient care setting used to evaluate and manage patients who are hospitalized.
261QM2500X	HCPTNUCC	Р		Medical Specialty [Ambulatory Health Care Facilities\Clinic/Center]
261QP2300X	HCPTNUCC	Р	Primary Care [Ambulatory Health Care Facilities\Clinic/Center]	Primary Care [Ambulatory Health Care Facilities\Clinic/Center]
261QU0200X	HCPTNUCC	Р	Urgent Care [Ambulatory Health Care Facilities\Clinic/Center]	Urgent Care [Ambulatory Health Care Facilities\Clinic/Center]

3.4.47 PHVS_FACILITYVISITTYPE_SYNDROMICSURVEILLANCE - FACILITY / VISIT TYPE (SYNDROMIC SURVEILLANCE)

Type of facility that the patient visited for treatment.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3401

Codes

Value	Code System	Usage	Description	Comment
261QE0002X	HCPTNUCC	Р	Emergency Care [Ambulatory Health Care Facilities\Clinic/Center]	Emergency Care [Ambulatory Health Care Facilities\Clinic/Center]
1021-5	HSLOC	Р	Inpatient practice setting	A patient care setting used to evaluate and manage patients who are hospitalized.
261QM2500X	HCPTNUCC	Р	Medical Specialty (Ambulatory Health Care Facilities Clinic/Center	Medical Specialty [Ambulatory Health Care Facilities\Clinic/Center]
261QP2300X	HCPTNUCC	Р	Care Facilities\Clinic/Centerl	Primary Care [Ambulatory Health Care Facilities\Clinic/Center]
261QU0200X	HCPTNUCC	Р	Care Facilities/Clinic/Center	Urgent Care [Ambulatory Health Care Facilities\Clinic/Center]

3.4.48 PHVS_FINANCIALCLASS_IIS - FINANCIAL CLASS (IIS)

User-defined Table 0064 - Financial class [NIP suggested values] (use in PV1-20). Financial class references a client eligibility status at a point in time. The values in this table relate to eligibility for the Vaccine for Children (VFC) program. Local implementations may define and document local codes.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3366

Value	Code System	Usage	Description	Comment
V23	HL70064	Р	317	
V22	HL70064	Р	CHIP	
V24	HL70064	Р	Medicare	
V01	HL70064	Р	Not VFC eligible	
V25	HL70064	Р	State Program Eligibility	
V04	HL70064	Р	VFC eligible - American Indian/Alaskan Native	
V05	HL70064	Р	VFC eligible - Federally Qualified Health Center Patient (under-insured)	
V02	HL70064	Р	VFC eligible - Medicaid/Medicaid Managed	

Value	Code System	Usage	Description	Comment
			Care	
V03	HL70064	Р	VFC eligible - Uninsured	

3.4.49 PHVS_GENDER_SYNDROMICSURVEILLANCE - GENDER (SYNDROMIC SURVEILLANCE)

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3403

Codes

Value	Code System	Usage	Description	Comment
F	HL70001	Р	Female	
M	HL70001	Р	Male	
0	HL70001	Р	Other	
U	HL70001	Р	Unknown	

3.4.50 PHVS_HEALTHCARESERVICELOCATION_SYNDROMIC - HEALTHCARE SERVICE LOCATION (SYNDROMIC)

Value set for healthcare service location used by the Implementation Guide for Syndromic Surveillance.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7777

Value	Code System	Usage	Description	Comment
1162-7	HSLOC	Р	24-Hour Observation Area	Area where patients are monitored for suspected or non-life-threatening conditions for 24 hours or less.
1184-1	HSLOC	Р	Administrative Areas	Areas within a healthcare facility where administrative functions take place. No patient care takes place in these areas.
1075-1	HSLOC	Р	Adolescent Behavioral Health Ward	Area for the evaluation and treatment of patients 13-18 years old with acute psychiatric or behavioral disorders.
1210-4	HSLOC	Р	Adult Mixed Acuity Unit	Hospital area for the evaluation and treatment of adult patients whose conditions are of varying levels of acuity (e.g., critical care, ward-level care, step-down type

Value	Code System	Usage	Description	Comment
				care, etc.). Such a care area may be comprised of patients followed by different hospital services (e.g., coronary, medical, surgical, etc.). This care area may or may not include "acuity adaptable" or "universal" beds (i.e., this model of patient care allows a patient to stay in same bed during all phases of his care, from critical care through lower levels of care).
1099-1	HSLOC	Р	Adult Step-Down Unit	Area for adult patients who are hemodynamically stable and can benefit from close supervision and monitoring, such as frequent pulmonary toilet, vital signs, and/or neurologic and neurovascular checks. (post-critical care)
1021-5	HSLOC	Р	All Inpatient Beds combined	A location which represents all inpatient beds. It is used for reporting optional hospital-wide summary data (e.g., CLA-BSI rate for facility)
1110-6	HSLOC	Р	Allergy Clinic	An outpatient setting for the purpose of providing services to patients with allergies.
1243-5	HSLOC	Р	Ambulatory Surgery Center	Area that is equipped for the performance of surgical operations; can be attached to an ACH or freestanding and has a separate ASC CCN. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met.
1245-0	HSLOC	Р	Ambulatory Surgery Recovery Room	Area designated in an ASC for monitoring patients for the immediate effects of anesthesia
1205-4	HSLOC	Р	Antenatal Care Ward	Hospital area for observation, evaluation, treatment or surgery of high-risk pregnancy patients.
1106-4	HSLOC	Р	Assisted Living Area	A location where persons live and have available to them housekeeping, meal preparation, transportation, and other non-

Value	Code System	Usage	Description	Comment
				medical services. Patient care is not done in this area.
1145-2	HSLOC	Р	Behavioral Health Clinic	An outpatient setting for the purpose of providing services to patients with psychiatric or behavior disorders.
1051-2	HSLOC	Р	Behavioral Health/Psych Ward	Area for the evaluation and treatment of patients with acute psychiatric or behavioral disorders.
1185-8	HSLOC	Р	Blood Bank	An area within a healthcare facility that may collect, store, and distribute blood and blood products, and performs diagnostic tests on blood/components to determine compatibilities.
1195-7	HSLOC	Р	Blood Collection (Blood Drive Campaign)	A location not designed or equipped to perform healthcare functions (e.g., school gym or shopping mall) that has been set up specifically to collect donations of blood and blood products from the public.
1147-8	HSLOC	Р	Blood Collection Center	An outpatient setting where blood is collected from donors. This does not include donation centers temporarily set up in non-clinical settings (e.g., schools, churches) or mobile blood collection centers.
1026-4	HSLOC	Р	Burn Critical Care	Critical care area for the care of patients with significant/major burns.
1052-0	HSLOC	Р	Burn Ward	Area for the evaluation and treatment of patients who have burns.
1005-8	HSLOC	Р	Cardiac Catheterization Room/Suite	A room or rooms in a hospital equipped for the performance of heart catheterizations for diagnostic or therapeutic purposes. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met.
1112-2	HSLOC	Р	Cardiac Rehabilitation Center	An outpatient setting where patients with cardiac disease, in

Value	Code System	Usage	Description	Comment
				partnership with a multidisciplinary team of health professionals, are encouraged and supported to achieve and maintain optimal physical health through exercise and nutritional and psychological counseling.
1113-0	HSLOC	Р	Cardiology Clinic	An outpatient setting for the evaluation and treatment of patients with cardiac problems.
1186-6	HSLOC	Р	Central Sterile Supply	An area within a healthcare facility where durable medical equipment is cleaned/decontaminated, wrapped, sterilized, and stored in preparation for patient use.
1187-4	HSLOC	Р	Central Trash Area	An area adjacent to a healthcare facility where biohazardous and non-biohazardous wastes are collected in preparation for transport to a landfill or incineration.
1261-7	HSLOC	Р	Centralized Transfusion Service	A location outside the facility that stores, manipulates, issues, and/or performs compatibility testing on blood and blood products (e.g., a contracted transfusion service or a separate hospital that provides transfusion services for your facility).
1095-9	HSLOC	Р	Cesarean Section Room/Suite	A room or suite in a hospital equipped for the performance of obstetric and gynecologic surgeries and for the care of the neonate immediately after birth. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met.
1103-1	HSLOC	Р	Chronic Alzheimer's Unit	Area where care is provided to persons diagnosed with Alzheimer's syndrome for extended periods of time.
1104-9	HSLOC	Р	Chronic Behavioral Health/Psych Unit	Area where care is provided to patients with psychiatric or behavioral-disorder diagnoses for

Value	Code System	Usage	Description	Comment
				extended periods of time.
1102-3	HSLOC	Р	Chronic Care Unit	Area where care is provided for persons with chronic disease or disabilities for extended periods of time.
1105-6	HSLOC	Р	Chronic Rehabilitation Unit	Area where evaluation and restoration of function is provided to patients who have lost function due to acute or chronic pain, musculoskeletal problems, stroke, or catastrophic events resulting in complete or partial paralysis.
1011-6	HSLOC	Р	Clinical Chemistry Laboratory	An area within a diagnostic laboratory that performs general clinical chemistry analysis (clinical biochemistry), endocrinology, therapeutic substance monitoring, toxicology, blood pH and blood gas analysis, urinalysis, and urine pregnancy testing.
1148-6	HSLOC	Р	Continence Clinic	An outpatient setting for the evaluation and treatment of patients with incontinence problems.
1150-2	HSLOC	Р	Dental Clinic	An outpatient setting that provides dental services, including preventive teeth cleaning, emergency treatment, and comprehensive oral care. This may be a private or group practice or a teaching facility for dentists and/or dental hygienists.
1115-5	HSLOC	Р	Dermatology Clinic	An outpatient setting for the evaluation and treatment of patients with dermatologic conditions by a dermatologist.
1116-3	HSLOC	Р	Diabetes-Endocrinology Clinic	An outpatient setting for the evaluation, education, and treatment of persons with diabetes.
1198-1	HSLOC	Р	Dialysis Specialty Care Area	Specialty care area for the care of patients who require acute dialysis as a temporary measure.
1126-2	HSLOC	Р	Ear, Nose, Throat Clinic	An outpatient setting for the

Value	Code System	Usage	Description	Comment
				evaluation and treatment of conditions related to the ear, nose, and/or throat.
1053-8	HSLOC	Р	Ear, Nose, Throat Ward	Area for the evaluation, treatment, or surgery of patients with ear, nose, or throat disorders.
1108-0	HSLOC	P	Emergency Department	Area that provides emergency medical services; top priority is given to those with life-threatening illness or injury.
1007-4	HSLOC	Р	Endoscopy Suite	An area where endoscopic procedures (e.g., upper gastrointestinal, lower gastrointestinal endoscopies, bronchoscopy) are performed on outpatients and/or inpatients. Patient care and processing of equipment may take place in this location.
1188-2	HSLOC	Р	Facility Grounds	Any outdoor area adjacent to a healthcare facility that belongs to the facility (e.g., sidewalks, parking ramps, lawns).
1250-0	HSLOC	Р	Facility-wide Inpatient (FacWIDEIn)	FACWIDEIN monitoring represents all inpatient locations for the facility, where appropriate numerator and denominator counts can be collected. All of the facility's inpatient locations with an overnight stay must be represented for full inpatient facility coverage.
1251-8	HSLOC	Р	Facility-wide Outpatient (FacWIDEOut)	FACWIDEOUT monitoring represents all outpatient locations for the facility, where appropriate numerator and denominator counts can be collected. All of the facility's outpatient locations must be represented for full outpatient facility coverage.
1117-1	HSLOC	Р	Family Medicine Clinic	An outpatient setting for patients who are managed by a family practice physician or group of physicians. Does not include private physician practice.

Value	Code System	Usage	Description	Comment
1206-2	HSLOC	Р	Float	For HCWs who do not work at least 75% of the time at a single location, the work location code for 'float' should be entered.
1118-9	HSLOC	Р	Gastrointestinal Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of conditions related to the gastrointestinal tract. Usually includes an endoscopy suite.
1054-6	HSLOC	P	Gastrointestinal Ward	Area for the evaluation, treatment, or surgery of patients with disorders of the gastrointestinal tract.
1010-8	HSLOC	Р	General Laboratory	An area that encompasses all clinical divisions within a diagnostic laboratory.
1122-1	HSLOC	Р	Genetics Clinic	An outpatient setting for testing and counseling of patients with genetic or hereditary disorders.
1055-3	HSLOC	Р	Genitourinary Ward	Area for the evaluation, treatment, or surgery of patients with disorders of the genitourinary system.
1056-1	HSLOC	Р	Gerontology Ward	Area for the evaluation, treatment, or surgery of patients with agerelated diseases.
1121-3	HSLOC	Р	Gynecology Clinic	An outpatient setting for the evaluation and treatment of women with reproductive tract conditions.
1057-9	HSLOC	Р	Gynecology Ward	Area for the evaluation, treatment, or surgery of female patients with reproductive tract disorders.
1012-4	HSLOC	Р	Hematology Laboratory	An area within a diagnostic laboratory that determines the specific properties of blood (e.g., CBC, white blood count).
1200-5	HSLOC	Р	Hematology-Oncology Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of persons with hematologic and/or oncologic disorders. This may include chemotherapy or blood/blood products infusion services.

Value	Code System	Usage	Description	Comment
1013-2	HSLOC	Р	Histology-Surgical Pathology Laboratory	An area within a diagnostic laboratory that uses high-power microscopy to evaluate cells and tissues for the presence or absence of disease.
1154-4	HSLOC	Р	HIV Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of persons who are HIV positive or who have AIDS.
1161-9	HSLOC	Р	Holistic Medicine Center	An outpatient setting where alternative healthcare practices are used, focusing on the physical, mental, emotional, social, and spiritual aspects of health.
1192-4	HSLOC	Р	Home Care	A patient's home location where medical services including routine noninvasive and other invasive procedures (e.g., insertion of indwelling urinary catheter, insertion of IV line) are performed by healthcare workers and family members under the supervision of a licensed independent practitioner (e.g., MD, CNP,PA).
1262-1	HSLOC	Р	Home Hemodialysis	Hemodialysis performed by an appropriately trained patient (and the patient's caregiver) and at home.
1194-0	HSLOC	Р	Home-based Hospice	A patient's home location where end-of-life services are performed by healthcare workers, family members, and volunteers.
1182-5	HSLOC	Р	Housekeeping/Environmental Services	An area within a healthcare facility where the activities of housekeeping/environmental services staff are coordinated and supplies are stored.
1017-3	HSLOC	P	Hyperbaric Oxygen Center	An outpatient setting where therapeutic hyperbaric oxygen is administered.
1018-1	HSLOC	Р	Infusion Center	An outpatient setting for the administration of fluids, blood products, and medications.

Value	Code System	Usage	Description	Comment
1165-0	HSLOC	Р	Inpatient Hospice	Area where pallative care is provided to the dying patient.
1203-9	HSLOC	Р	Interventional Radiology	A room where diagnostic or therapeutic radiology procedures are done on outpatients or inpatients. Operating room requirements for air changes, temperature, humidity, and surfaces must be met.
1171-8	HSLOC	Р	Jail Unit	Overnight stay patient care area of a hospital or correctional facility used only for those who are in custody of law enforcement during their treatment.
1058-7	HSLOC	Р	Labor and Delivery Ward	Area where women labor and give birth.
1059-5	HSLOC	Р	Labor, Delivery, Recovery, Postpartum Suite	Suite used for labor, delivery, recovery and postpartum care all within the same suite.
1183-3	HSLOC	Р	Laundry Room	An area within a healthcare facility where laundry is sorted, washed, dried, and prepared for transport and use.
1204-7	HSLOC	Р	Location outside facility	A location outside this facility, including unknown outside location.
1220-3	HSLOC	Р	Long Term Acute Care Intensive Care Unit	Critical care area specializing in the evaluation, treatment, and management of patients that require high observation/acuity and/or special care that are suffering medically complex conditions or who have suffered recent catastrophic illness or injury, and require and extended stay in an acute care environment.
1222-9	HSLOC	Р	Long Term Acute Care Pediatric Intensive Care Unit	Critical care area specializing in the evaluation, treatment, and management of patients <= 18 years old, that require high observation/acuity and/or special care that are suffering medically complex conditions or who have suffered recent catastrophic illness

Value	Code System	Usage	Description	Comment
				or injury, and require an extended stay in an acute care environment.
1214-6	HSLOC	Р	Long Term Acute Care Pediatric Ward	Hospital area for the evaluation and treatment of patients <= 18 years old, suffering medically complex conditions or who have suffered recent catastrophic illness or injury, and require an extended stay in an acute care environment.
1221-1	HSLOC	Р	Long Term Acute Care Ward	Hospital area for the evaluation and treatment of patients suffering medically complex conditions or who have suffered recent catastrophic illness or injury, and require an extended stay in an acute care environment.
1260-9	HSLOC	Р	Long Term Care Facility Bariatric Unit	A unit or designated area which provides specialized care for individuals who are preparing for or have undergone bariatric surgery.
1255-9	HSLOC	Р	Long Term Care Facility Dementia Unit	A unit or designated area which provides specialized care for individuals diagnosed with dementia or related conditions, including Alzheimer's disease.
1258-3	HSLOC	Р	Long Term Care Facility General Nursing Unit	A unit or designated area which primarily provides nursing, rehabilitative or custodial services to individuals with varying levels of chronic conditions or disability requiring long term (>90 days) support.
1254-2	HSLOC	Р	Long Term Care Facility Inpatient Hospice Unit	A unit or designated area which provides palliative and supportive care services to individuals diagnosed with life limiting (terminal) conditions.
1256-7	HSLOC	Р	Long Term Care Facility Psychiatric Unit	Unit or designated area which provides specialized care for individuals diagnosed with psychiatric or behavioral disorders.
1257-5	HSLOC	Р	Long Term Care Facility Skilled Nursing- Short Term Rehabilitation Unit	A unit or designated area which primarily provides short term (<90

Value	Code System	Usage	Description	Comment
				days), medical, skilled nursing or rehabilitation services to individuals requiring restorative care following recent hospitalization.
1259-1	HSLOC	Р	Long Term Care Facility Ventilator Dependent Unit	A unit or designated area which provides nursing and respiratory care to individuals who require mechanical ventilation.
1090-0	HSLOC	Р	Long-Term Acute Care	Area that provides acute care services to patients suffering medically complex conditions, or patients who have suffered recent catastrophic illness or injury and require an extended stay in an acute care environment.
1028-0	HSLOC	Р	Medical Cardiac Critical Care	Critical care area for the care of patients with serious heart problems that do not require heart surgery.
1120-5	HSLOC	Р	Medical Clinic	An outpatient setting for the diagnosis, evaluation and treatment of medical disorders.
1027-2	HSLOC	Р	Medical Critical Care	Critical care area for the care of patients who are being treated for nonsurgical conditions.
1060-3	HSLOC	Р	Medical Ward	Area for the evaluation and treatment of patients with medical conditions or disorders.
1029-8	HSLOC	Р	Medical-Surgical Critical Care	Critical care area for the care of patients with medical and/or surgical conditions.
1061-1	HSLOC	Р	Medical-Surgical Ward	Area for the evaluation of patients with medical and/or surgical conditions.
1014-0	HSLOC	Р	Microbiology Laboratory	An area within a laboratory that performs diagnostic tests to determine the presence or absence of bacteria and their related properties.
1212-0	HSLOC	Р	Mixed Age Mixed Acuity Unit	Hospital area for the evaluation and treatment of a mixture of adult and pediatric patients whose conditions are of varying levels of

Value	Code System	Usage	Description	Comment
				acuity (e.g., critical care, ward-level care, step-down type care, etc.). Such a care area may be comprised of patients followed by different hospital services (e.g., coronary, medical, surgical, etc.). This care area may or may not include "acuity adaptable" or "universal" beds (i.e., this model of patient care allows a patient to stay in same bed during all phases of his care, from critical care through lower levels of care).
1176-7	HSLOC	Р	Mobile Blood Collection center	A self-contained mobile unit such as a bus or trailer that is specifically designed and equipped for the collection of blood and blood products from public donors. This unit typically moves from location to location.
1174-2	HSLOC	Р	Mobile Emergency Services/EMS	Mobile unit that provides clinical and emergency medical services to patients who require them in the pre-hospital setting.
1175-9	HSLOC	Р	Mobile MRI/CT	A self-contained mobile unit such as a bus or trailer that is equipped with MRI or CT radiologic equipment and that may be moved between healthcare locations (e.g., hospitals, clinics).
1189-0	HSLOC	Р	Morgue/Autopsy Room	An area within a facility that is used for the storage and/or postmortem examination of deceased persons.
1040-5	HSLOC	Р	Neonatal Critical Care (Level III)	Critical care area for the care of newborns and infants with serious illness requiring Level III care; area is supervised by a neonatologist.
1039-7	HSLOC	Р	Neonatal Critical Care(Level II/III)	Combined nursery housing both Level II and III newborns and infants
1037-1	HSLOC	Р	Neonatal unit	Hospital unit specialized for care newborns and infants.
1135-3	HSLOC	Р	Nephrology clinic	An outpatient setting for the

Value	Code System	Usage	Description	Comment
				evaluation and treatment of persons with genitourinary tract conditions.
1035-5	HSLOC	Р	Neurologic Critical Care	Critical care area for the care of patients with life-threatening neurologic diseases.
1123-9	HSLOC	P	Neurology Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of persons with neurologic disorders.
1062-9	HSLOC	Р	Neurology Ward	Area for the evaluation and treatment of patients with neurologic disorders.
1031-4	HSLOC	Р	Neurosurgical Critical Care	Critical care area for the surgical management of patients with severe neurologic diseases or those at risk for neurologic injury as a result of surgery.
1063-7	HSLOC	Р	Neurosurgical Ward	Area for the care of patients whose primary reason for admission is to have neurosurgery or to be cared for by a neurosurgeon after head or spinal trauma.
1151-0	HSLOC	Р	Occupational Health Clinic	An outpatient setting where workplace physicals, workplace injury management, and immunologic evaluations take place.
1152-8	HSLOC	Р	Occupational Therapy Clinic	An outpatient setting where persons with injury or disability are helped to resume activities of daily living with exercise, massage, and other therapies.
1232-8	HSLOC	Р	Oncology General Hematology- Oncology Ward	Area for the evaluation and treatment of patients with cancer and/or blood disorders.
1231-0	HSLOC	Р	Oncology Hematopoietic Stem Cell Transplant Ward	Area for the care of patients who undergo stem cell transplant for the treatment of cancers and/or blood or immune system disorders.
1226-0	HSLOC	Р	Oncology Leukemia Ward	Area for the evaluation and treatment of patients with leukemia.
1229-4	HSLOC	Р	Oncology Leukemia-Lymphoma Ward	Area for the evaluation and

Value	Code System	Usage	Description	Comment
				treatment of patients with leukemia and/or lymphoma.
1228-6	HSLOC	Р	Oncology Lymphoma Ward	Area for the evaluation and treatment of patients with lymphoma.
1223-7	HSLOC	Р	Oncology Medical Critical Care	Critical care area for the care of oncology patients who are being treated for nonsurgical conditions related to their malignancy.
1225-2	HSLOC	Р	Oncology Medical-Surgical Critical Care	Critical care area for the care of oncology patients with medical and/or surgical conditions related to their malignancy.
1236-9	HSLOC	Р	Oncology Mixed Acuity Unit (all ages)	Area for the evaluation and treatment of a mixture of adult and pediatric oncology patients whose conditions are of varying levels of acuity (e.g., critical care, ward-level care, step-down type care, etc.). This care area may or may not include "acuity adaptable" or universal beds (i.e. this model of patient care allows a patient to stay in the same bed during all phases of care, from critical care through lower levels of care.)
1233-6	HSLOC	Р	Oncology Pediatric Critical Care	Critical care area for the care of oncology patients =18 years old who are being treated for surgical or nonsurgical conditions related to their malignancy.
1235-1	HSLOC	Р	Oncology Pediatric General Hematology-Oncology Ward	Area for the evaluation and treatment of patients =18 years old with cancer and/or blood disorders.
1234-4	HSLOC	Р	Oncology Pediatric Hematopoietic Stem Cell Transplant Ward	Area for the care of patients =18 years old who undergo stem cell transplant for the treatment of cancers and/or blood or immune system disorders.
1230-2	HSLOC	Р	Oncology Solid Tumor Ward	Area for the evaluation and treatment of oncology patients with solid tumors.
1227-8	HSLOC	Р	Oncology Step Down Unit	Area for oncology patients who are

Value	Code System	Usage	Description	Comment
				hemodynamically stable and can benefit from close supervision and monitoring, such as frequent pulmonary toilet, vital signs, and/or neurologic and neurovascular checks.
1224-5	HSLOC	Р	Oncology Surgical Critical Care	Critical care area for the evaluation and management of oncology patients with serious illness before and/or after cancer-related surgery.
1094-2	HSLOC	Р	Operating and recovery rooms	Areas for the provision of surgical and immediate post-surgical care.
1096-7	HSLOC	Р	Operating Room/Suite	A room or suite in a hospital equipped for the performance of surgical operations. Requirements for air changes, temperature, humidity, and surfaces must be met.
1124-7	HSLOC	Р	Ophthalmology Clinic	An outpatient setting for the diagnosis, evaluation and treatment of ophthalmalogic disorders.
1064-5	HSLOC	Р	Ophthalmology Ward	Area for the care of patients whose primary reason for admission is to have eye surgery or to be cared for by an ophthalmologist after eye trauma.
1125-4	HSLOC	Р	Orthopedic Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of orthopedic disorders.
1066-0	HSLOC	Р	Orthopedic Trauma Ward	Area for the evaluation and treatment of patients with orthopedic injuries or disorders.
1065-2	HSLOC	Р	Orthopedic Ward	Area for the evaluation, treatment, or surgery on bones, joints, and associated structures by an orthopedist.
1149-4	HSLOC	Р	Ostomy Clinic	An outpatient setting for the management of persons who have had surgical procedure for removing normal bodily wastes through a surgical opening (stoma) on the abdominal wall.

Value	Code System	Usage	Description	Comment
1246-8	HSLOC	Р	Outpatient Ambulatory Pediatric Surgery Center	Area, in an ASC, that is equipped for the performance of surgical operations for persons =18 years old; may be free-standing or part of a hospital. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met. Patients do not stay overnight.
1247-6	HSLOC	Р	Outpatient Ambulatory Plastic Surgery Center	Area, in an ASC, that is equipped for the performance of plastic surgery operations; may be freestanding or part of a hospital. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met. Patients do not stay overnight.
1153-6	HSLOC	P	Outpatient Hemodialysis Clinic	An outpatient setting where chronic hemodialysis patients are evaluated and receive dialysis several times weekly.
1268-2	HSLOC	Р	Outpatient Hemodialysis Clinic - Acute Kidney Injury	An outpatient setting where Acute Kidney Injury patients are evaluated and receive dialysis several times weekly.
1219-5	HSLOC	Р	Outpatient Hemodialysis Clinic (in Inpatient Facility)	An outpatient setting where chronic hemodialysis patients are evaluated and receive dialysis several times weekly IP facilities
1242-7	HSLOC	Р	Outpatient Operating Room/Suite (Attached)	A room or suite equipped for the performance of surgical operations that is physically within the walls of the affiliated ACH. It is considered a hospital outpatient department used for outpatient surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1244-3	HSLOC	Р	Outpatient Operating Room/Suite (Detached)	A room or suite equipped for the performance of surgical operations that is not physically attached to the affiliated ACH (could be on the same campus or miles wawy). It is considered a hospital outpatient

Value	Code System	Usage	Description	Comment
				department used for outpatient surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1127-0	HSLOC	Р	Pain Clinic	An outpatient setting for the evaluation and treatment of persons with chronic or intractable pain.
1146-0	HSLOC	Р	Pediatric Behavioral Health Clinic	An outpatient setting for the evaluation and management of persons =18 years old with psychiatric or behavior disorders.
1077-7	HSLOC	P	Pediatric Behavioral Health Ward	Area for the evaluation and treatment of patients =18 years old with acute psychiatric or behavioral disorders.
1042-1	HSLOC	Р	Pediatric Burn Critical Care	Critical care area for the care of patients =18 years old with significant/major burns.
1078-5	HSLOC	Р	Pediatric Burn Ward	Area for the evaluation and treatment of patients =18 years old who have tissue injury caused by burns.
1129-6	HSLOC	Р	Pediatric Cardiology Center	An outpatient setting for the evaluation and management of persons =18 years old with cardiac disorders.
1043-9	HSLOC	Р	Pediatric Cardiothoracic Critical Care	Critical care area for the care of patients =18 years old following cardiac and thoracic surgery.
1128-8	HSLOC	Р	Pediatric Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old.
1130-4	HSLOC	Р	Pediatric Dental Clinic	An outpatient setting that provides dental services, including preventive teeth cleaning, emergency treatment, and comprehensive oral care to persons =18 years old. This may be a private or group practice or a teaching facility for dentists and/or dental hygienists.

Value	Code System	Usage	Description	Comment
1131-2	HSLOC	Р	Pediatric Dermatology Clinic	An outpatient setting for the evaluation and management of persons =18 years old with dermatologic disorders.
1132-0	HSLOC	Р	Pediatric Diabetes-Endocrinology Clinic	An outpatient setting for the evaluation and management of persons =18 years old with diabetes or other endocrine disorders.
1091-8	HSLOC	Р	Pediatric Dialysis Specialty Care Area	Specialty care area for the care of patients =18 years old who require acute dialysis as a temporary measure.
1079-3	HSLOC	P	Pediatric Ear, Nose, Throat Ward	Area for the evaluation and treatment of patients =18 years old with disorders of the ear, nose, and/or throat.
1109-8	HSLOC	Р	Pediatric Emergency Department	Area that provides emergency medical services to patients =18 years old; top priority is given to those with life-threatening illness or injury.
1119-7	HSLOC	P	Pediatric Gastrointestinal Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with gastrointestinal disorders.
1080-1	HSLOC	P	Pediatric Genitourinary Ward	Area for the evaluation and treatment of patients =18 years old with disorders of the genitourinary system.
1136-1	HSLOC	Р	Pediatric Hematology-Oncology Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with cancer and/or blood disorders.
1044-7	HSLOC	Р	Pediatric Medical Critical Care	Critical care area for the care of patients =18 years old who are being treated for nonsurgical conditions.
1076-9	HSLOC	Р	Pediatric Medical Ward	Area for the evaluation and treatment of patients =18 years of old with medical conditions or disorders.
1045-4	HSLOC	Р	Pediatric Medical-Surgical Critical Care	Critical care area for the care of

Value	Code System	Usage	Description	Comment
				patients =18 years old with medical and/or surgical conditions.
1081-9	HSLOC	Р	Pediatric Medical-Surgical Ward	Area for the evaluation and treatment of patients =18 years old with medical and/or surgical conditions.
1211-2	HSLOC	Р	Pediatric Mixed Acuity Unit	Hospital area for the evaluation and treatment of pediatric patients (<= 18 years old) whose conditions are of varying levels of acuity (e.g., critical care, ward-level care, stepdown type care, etc.). Such a care area may be comprised of patients followed by different hospital services (e.g., coronary, medical, surgical, etc.). This care area may or may not include "acuity adaptable" or "universal" beds (i.e., this model of patient care allows a patient to stay in same bed during all phases of his care, from critical care through lower levels of care).
1137-9	HSLOC	Р	Pediatric Nephrology Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with disorders of the genitourinary tract.
1082-7	HSLOC	Р	Pediatric Neurology Ward	Area for the evaluation and treatment of patients =18 years old with neurologic disorders.
1046-2	HSLOC	Р	Pediatric Neurosurgical Critical Care	Critical care area for the surgical management of patients =18 years old with severe neurologic diseases or those at risk for neurologic injury as a result of surgery.
1083-5	HSLOC	Р	Pediatric Neurosurgical Ward	Area for care of patients =18 years old whose primary reason for admission is to have neurosurgery or to be cared for by a neurosurgeon after head or spinal trauma.
1133-8	HSLOC	Р	Pediatric Orthopedic Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with

Value	Code System	Usage	Description	Comment
				fractures or other orthopedic disorders.
1084-3	HSLOC	Р	Pediatric Orthopedic Ward	Area for the evaluation and treatment of patients =18 years old with orthopedic injuries or disorders.
1248-4	HSLOC	Р	Pediatric Outpatient Operating Room/Suite (Attached)	A room or suite equipped for the performance of pediatric surgical operations that is physically within the walls of the affiliated ACH. It is considered a hospital outpatient department used for outpatient pediatric surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1249-2	HSLOC	Р	Pediatric Outpatient Operating Room/Suite (Detached)	A room or suite equipped for the performance of pediatric surgical operations that is not physically attached to the affiliated ACH (could be on the same campus or miles wawy). It is considered a hospital outpatient department used for outpatient pediatric surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1085-0	HSLOC	Р	Pediatric Rehabilitation Ward (within Acute Care Hospital)	Area for the evaluation and restoration of function to patients =18 years old who have lost function due to acute or chronic pain, musculoskeletal problems, stroke, or catastrophic events resulting in complete or partial paralysis.
1047-0	HSLOC	Р	Pediatric Respiratory Critical Care	Critical care area for the evaluation and treatment of patients =18 years old with severe respiratory conditions.
1138-7	HSLOC	Р	Pediatric Rheumatology Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with rheumatology disorders.

Value	Code System	Usage	Description	Comment
1134-6	HSLOC	Р	Pediatric Scoliosis Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with scoliosis or other growth disorders of the spine.
1093-4	HSLOC	Р	Pediatric Solid Organ Transplant Specialty Care Area	Specialty care area for the postoperative care of patients =18 years old who have had a solid organ transplant (e.g., heart/lung, kidney, liver, pancreas).
1100-7	HSLOC	Р	Pediatric Step-Down Unit	Area for patients =18 years old who are hemodynamically stable and can benefit from close supervision and monitoring, such as frequent pulmonary toilet, vital signs, and/or neurologic and neurovascular checks. (post-critical care)
1048-8	HSLOC	P	Pediatric Surgical Critical Care	Critical care area for the evaluation and management of patients =18 years old with serious illness before and/or after surgery.
1086-8	HSLOC	Р	Pediatric Surgical Ward	Area for the evaluation and treatment of patients =18 years old who have undergone a surgical procedure.
1049-6	HSLOC	Р	Pediatric Trauma Critical Care	Critical care area for the care of patients =18 years old who require a high level of monitoring and/or intervention following trauma or during critical illness related to trauma.
1074-4	HSLOC	Р	Pediatric ward	Hospital setting for provision of routine pediatric inpatient care.
1179-1	HSLOC	Р	Pharmacy	An area within a healthcare facility where medications are prepared and labeled for patient use.
1181-7	HSLOC	Р	Physical Plant Operations Center	An area within a healthcare facility where construction, renovation, and maintenance staff activities and supplies are coordinated. This may also include areas of machinery and equipment.
1202-1	HSLOC	Р	Physical Therapy Clinic	An outpatient setting where

Value	Code System	Usage	Description	Comment
				persons with injury or disability are helped to obtain maximum physical function.
1141-1	HSLOC	Р	Physician's Office	A physician's office practice.
1067-8	HSLOC	Р	Plastic Surgery Ward	Area for the care of patients who have reconstructive surgery performed by a plastic surgeon.
1140-3	HSLOC	Р	Podiatry Clinic	An outpatient setting for the evaluation and treatment of patients with conditions or disorders of the feet.
1169-2	HSLOC	P	Post-Anesthesia Care Unit	Area designated for monitoring patients for the immediate effects of anesthesia before being sent home.
1097-5	HSLOC	Р	Post-Anesthesia Care Unit/Recovery Room	Area designated for monitoring patients for immediate effects of anesthesia before either going home or on to an in-patient care area.
1068-6	HSLOC	Р	Postpartum Ward	Area for the care of patients recovering from childbirth.
1156-9	HSLOC	Р	Prenatal Clinic	An outpatient setting for the evaluation and treatment of pregnant women.
1034-8	HSLOC	Р	Prenatal Critical Care	Critical care area for the care of pregnant patients with complex medical or obstetric problems requiring a high level of care to prevent the loss of the fetus and to protect the life of the mother.
1180-9	HSLOC	Р	Public Area in Facility	Any indoor area within a healthcare facility that is not used for patient care and that is available to the public (e.g., waiting rooms, cafeterias, hallways).
1157-7	HSLOC	Р	Pulmonary Clinic	An outpatient setting for the evaluation and treatment of persons with disorders of the respiratory tract.
1009-0	HSLOC	Р	Pulmonary Function Testing	Area where the evaluation of a patient's respiratory status takes place.

Value	Code System	Usage	Description	Comment
1069-4	HSLOC	Р	Pulmonary Ward	Area for the evaluation and treatment of patients with respiratory system conditions or disorders.
1008-2	HSLOC	Р	Radiology	An area where diagnostic or therapeutic radiologic procedures are done on outpatients and/or inpatients. Operating room requirements for air changes, temperature, humidity, and surfaces are NOT met.(includes Nuclear Medicine)
1155-1	HSLOC	Р	Rehabilitation Clinic	An outpatient setting where persons with injury or disability are evaluated and treated to resume activities of daily living, speech and language skills, and maximum physical function. This may include social and psychological evaluation and treatment.
1218-7	HSLOC	Р	Rehabilitation Pediatric Ward (freestanding Inpatient Rehabilitation Facility)	Hospital area for evaluation, treatment, and restoration of function to patients <= 18 years old who have lost function due to acute or chronic pain, musculoskeletal problems, stroke, brain or spinal cord dysfunction, or catastrophic events resulting in complete or partial paralysis.
1217-9	HSLOC	Р	Rehabilitation Ward (freestanding Inpatient Rehabilitation Facility)	Hospital area for evaluation, treatment, and restoration of function to patients have lost function due to acute or chronic pain, musculoskeletal problems, stroke, brain or spinal cord dysfunction, or catastrophic events resulting in complete or partial paralysis.
1070-2	HSLOC	Р	Rehabilitation Ward (within Acute Care Hospital)	Area for the evaluation and restoration of function to patients who have lost function due to acute or chronic pain, musculoskeletal problems, stroke, or catastrophic events resulting in complete or

Value	Code System	Usage	Description	Comment
				partial paralysis.
1033-0	HSLOC	Р	Respiratory Critical Care	Critical care area for the evaluation and treatment of patients with severe respiratory conditions.
1142-9	HSLOC	Р	Rheumatology Clinic	An outpatient setting for the evaluation and treatment of persons with autoimmune disorders, primarily rheumatoid arthritis.
1172-6	HSLOC	P	School Infirmary	Overnight stay patient care area of a school infirmary or health center (e.g., private residential school or college campus).
1170-0	HSLOC	Р	School or Prison Infirmary	Area in a school or correctional facility that provides medical care to students/inmates. This area is not staffed or equipped for overnight stay patients.
1201-3	HSLOC	Р	Scoliosis clinic	An outpatient setting for the evaluation and treatment of persons with scoliosis or other growth disorders of the spine.
1015-7	HSLOC	Р	Serology Laboratory	An area within a diagnostic laboratory that performs blood tests to determine the presence or absence of certain diseases or the levels of immunity.
1020-7	HSLOC	P	Sleep Study Unit	Area where patients stay overnight and are evaluated for sleep disorders. (for inpatients and outpatients)
1190-8	HSLOC	Р	Soiled Utility Area	Area where used and/or soiled disposable or durable medical equipment is stored and/or cleaned in preparation for disposal or reprocessing/reuse.
1092-6	HSLOC	Р	Solid Organ Transplant Specialty Care Area	Specialty care area for the postoperative care of patients who have had a solid organ transplant (e.g., heart/lung, kidney, liver, pancreas).
1196-5	HSLOC	Р	Specimen Collection Area (Community)	A location not designed or equipped to perform healthcare

Value	Code System	Usage	Description	Comment
				functions (e.g., school gym or shopping mall) that has been set up specifically to collect body fluids for healthcare testing. Examples would be blood sugar or cholesterol screening clinics.
1019-9	HSLOC	Р	Specimen Collection Area (Healthcare)	An area within a healthcare facility where procedures are performed to collect blood, tissue, and other specimens for diagnostic purposes.
1158-5	HSLOC	Р	Speech Therapy Clinic	An outpatient setting for the evaluation and treatment of persons with brain injury to maximize their speech, swallow, and language functions.
1041-3	HSLOC	P	Step down Neonatal Nursery (Level II)	Area for newborns and infants who are not critically ill but who may remain in the nursery for extended observation or to increase weight.
1071-0	HSLOC	Р	Stroke (Acute) Ward	Area for the evaluation, stabilization, and treatment of patients who have experienced an acute stroke.
1032-2	HSLOC	Р	Surgical Cardiothoracic Critical Care	Critical care area for the care of patients following cardiac and/or thoracic surgery.
1030-6	HSLOC	Р	Surgical Critical Care	Critical care area for the evaluation and management of patients with serious illness before and/or after surgery.
1143-7	HSLOC	Р	Surgical Services Clinic	An outpatient setting for the preoperative evaluation and the postoperative management of patients undergoing a surgical procedure.
1072-8	HSLOC	Р	Surgical Ward	Area for the evaluation and treatment of patients who have undergone a surgical procedure.
1208-8	HSLOC	Р	Telemetry Ward	Hospital area dedicated to providing evaluation and treatment of patients requiring continuous cardiac monitoring
1207-0	HSLOC	Р	Therapeutic Apheresis Clinic	Outpatient setting where blood is

Value	Code System	Usage	Description	Comment
				collected from patients and therapeutic apheresis procedures are performed.
1178-3	HSLOC	Р	Transport Service	Mobile unit used to transport patients to their home or from one healthcare setting to another non-emergently.
1025-6	HSLOC	Р	Trauma Critical Care	Critical care area for the care of patients who require a high level of monitoring and/or intervention following trauma or during critical illness related to trauma.
1209-6	HSLOC	Р	Treatment Room	A room in a patient care unit, in which various treatments or procedures requiring special equipment are performed, such as removing sutures, draining a hematoma, packing a wound, or performing an examination.
1160-1	HSLOC	Р	Urgent Care Center	Area that provides medical care services for illnesses and injuries that are not life-threatening.
1073-6	HSLOC	Р	Vascular Surgery Ward	Area for the evaluation and treatment of patients who have undergone vascular surgery.
1164-3	HSLOC	Р	Ventilator Dependent Unit	Area where care is provided to patients whose respirations depend on the use of a ventilator for extended periods of time.
1016-5	HSLOC	Р	Virology Laboratory	An area within a diagnostic laboratory that performs tests and/or culturing to determine the presence or absence of specific viruses.
1139-5	HSLOC	Р	Well Baby Clinic	An outpatient setting for the examination and treatment of normal newborns.
1038-9	HSLOC	Р	Well Baby Nursery (Level I)	Area for normal newborns with no identified health problems.
1144-5	HSLOC	Р	Wound Center	An outpatient setting for the evaluation and treatment of persons with acute or chronic wounds.

Value	Code System	Usage	Description	Comment
1159-3	HSLOC	Р	Wound Ostomy Continence Clinic	An outpatient area that provides acute and rehabilitative care for people with selective disorders of the gastrointestinal, genitourinary, and integumentary (skin) systems.

3.4.51 PHVS_HEALTHCARESERVICELOCATION_SYNDROMIC - HEALTHCARE SERVICE LOCATION (SYNDROMIC)

Value set for healthcare service location used by the Implementation Guide for Syndromic Surveillance.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7777

Codes

Value	Code System	Usage	Description	Comment
1162-7	HSLOC	Р	24-Hour Observation Area	Area where patients are monitored for suspected or non-life-threatening conditions for 24 hours or less.
1184-1	HSLOC	P	Administrative Areas	Areas within a healthcare facility where administrative functions take place. No patient care takes place in these areas.
1075-1	HSLOC	P	Adolescent Behavioral Health Ward	Area for the evaluation and treatment of patients 13-18 years old with acute psychiatric or behavioral disorders.
1210-4	HSLOC	Р	Adult Mixed Acuity Unit	Hospital area for the evaluation and treatment of adult patients whose conditions are of varying levels of acuity (e.g., critical care, ward-level care, step-down type care, etc.). Such a care area may be comprised of patients followed by different hospital services (e.g., coronary, medical, surgical, etc.). This care area may or may not include "acuity adaptable" or "universal" beds (i.e., this model of patient care allows a patient to stay in same bed during all phases of his care, from critical care through

Value	Code System	Usage	Description	Comment
				lower levels of care).
1099-1	HSLOC	Р	Adult Step-Down Unit	Area for adult patients who are hemodynamically stable and can benefit from close supervision and monitoring, such as frequent pulmonary toilet, vital signs, and/or neurologic and neurovascular checks. (post-critical care)
1021-5	HSLOC	Р	All Inpatient Beds combined	A location which represents all inpatient beds. It is used for reporting optional hospital-wide summary data (e.g., CLA-BSI rate for facility)
1110-6	HSLOC	Р	Allergy Clinic	An outpatient setting for the purpose of providing services to patients with allergies.
1243-5	HSLOC	Р	Ambulatory Surgery Center	Area that is equipped for the performance of surgical operations; can be attached to an ACH or freestanding and has a separate ASC CCN. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met.
1245-0	HSLOC	Р	Ambulatory Surgery Recovery Room	Area designated in an ASC for monitoring patients for the immediate effects of anesthesia
1205-4	HSLOC	Р	Antenatal Care Ward	Hospital area for observation, evaluation, treatment or surgery of high-risk pregnancy patients.
1106-4	HSLOC	Р	Assisted Living Area	A location where persons live and have available to them housekeeping, meal preparation, transportation, and other nonmedical services. Patient care is not done in this area.
1145-2	HSLOC	Р	Behavioral Health Clinic	An outpatient setting for the purpose of providing services to patients with psychiatric or behavior disorders.
1051-2	HSLOC	Р	Behavioral Health/Psych Ward	Area for the evaluation and treatment of patients with acute psychiatric or behavioral disorders.

Value	Code System	Usage	Description	Comment
1185-8	HSLOC	Р	Blood Bank	An area within a healthcare facility that may collect, store, and distribute blood and blood products, and performs diagnostic tests on blood/components to determine compatibilities.
1195-7	HSLOC	Р	Blood Collection (Blood Drive Campaign)	A location not designed or equipped to perform healthcare functions (e.g., school gym or shopping mall) that has been set up specifically to collect donations of blood and blood products from the public.
1147-8	HSLOC	Р	Blood Collection Center	An outpatient setting where blood is collected from donors. This does not include donation centers temporarily set up in non-clinical settings (e.g., schools, churches) or mobile blood collection centers.
1026-4	HSLOC	Р	Burn Critical Care	Critical care area for the care of patients with significant/major burns.
1052-0	HSLOC	Р	Burn Ward	Area for the evaluation and treatment of patients who have burns.
1005-8	HSLOC	Р	Cardiac Catheterization Room/Suite	A room or rooms in a hospital equipped for the performance of heart catheterizations for diagnostic or therapeutic purposes. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met.
1112-2	HSLOC	Р	Cardiac Rehabilitation Center	An outpatient setting where patients with cardiac disease, in partnership with a multidisciplinary team of health professionals, are encouraged and supported to achieve and maintain optimal physical health through exercise and nutritional and psychological counseling.
1113-0	HSLOC	Р	Cardiology Clinic	An outpatient setting for the evaluation and treatment of patients with cardiac problems.

Value	Code System	Usage	Description	Comment
1186-6	HSLOC	Р	Central Sterile Supply	An area within a healthcare facility where durable medical equipment is cleaned/decontaminated, wrapped, sterilized, and stored in preparation for patient use.
1187-4	HSLOC	Р	Central Trash Area	An area adjacent to a healthcare facility where biohazardous and non-biohazardous wastes are collected in preparation for transport to a landfill or incineration.
1261-7	HSLOC	Р	Centralized Transfusion Service	A location outside the facility that stores, manipulates, issues, and/or performs compatibility testing on blood and blood products (e.g., a contracted transfusion service or a separate hospital that provides transfusion services for your facility).
1095-9	HSLOC	Р	Cesarean Section Room/Suite	A room or suite in a hospital equipped for the performance of obstetric and gynecologic surgeries and for the care of the neonate immediately after birth. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met.
1103-1	HSLOC	P	Chronic Alzheimer's Unit	Area where care is provided to persons diagnosed with Alzheimer's syndrome for extended periods of time.
1104-9	HSLOC	Р	Chronic Behavioral Health/Psych Unit	Area where care is provided to patients with psychiatric or behavioral-disorder diagnoses for extended periods of time.
1102-3	HSLOC	Р	Chronic Care Unit	Area where care is provided for persons with chronic disease or disabilities for extended periods of time.
1105-6	HSLOC	Р	Chronic Rehabilitation Unit	Area where evaluation and restoration of function is provided to patients who have lost function due to acute or chronic pain, musculoskeletal problems, stroke,

Value	Code System	Usage	Description	Comment
				or catastrophic events resulting in complete or partial paralysis.
1011-6	HSLOC	Р	Clinical Chemistry Laboratory	An area within a diagnostic laboratory that performs general clinical chemistry analysis (clinical biochemistry), endocrinology, therapeutic substance monitoring, toxicology, blood pH and blood gas analysis, urinalysis, and urine pregnancy testing.
1148-6	HSLOC	P	Continence Clinic	An outpatient setting for the evaluation and treatment of patients with incontinence problems.
1150-2	HSLOC	Р	Dental Clinic	An outpatient setting that provides dental services, including preventive teeth cleaning, emergency treatment, and comprehensive oral care. This may be a private or group practice or a teaching facility for dentists and/or dental hygienists.
1115-5	HSLOC	Р	Dermatology Clinic	An outpatient setting for the evaluation and treatment of patients with dermatologic conditions by a dermatologist.
1116-3	HSLOC	Р	Diabetes-Endocrinology Clinic	An outpatient setting for the evaluation, education, and treatment of persons with diabetes.
1198-1	HSLOC	Р	Dialysis Specialty Care Area	Specialty care area for the care of patients who require acute dialysis as a temporary measure.
1126-2	HSLOC	Р	Ear, Nose, Throat Clinic	An outpatient setting for the evaluation and treatment of conditions related to the ear, nose, and/or throat.
1053-8	HSLOC	Р	Ear, Nose, Throat Ward	Area for the evaluation, treatment, or surgery of patients with ear, nose, or throat disorders.
1108-0	HSLOC	Р	Emergency Department	Area that provides emergency medical services; top priority is given to those with life-threatening illness or injury.

Value	Code System	Usage	Description	Comment
1007-4	HSLOC	Р	Endoscopy Suite	An area where endoscopic procedures (e.g., upper gastrointestinal, lower gastrointestinal endoscopies, bronchoscopy) are performed on outpatients and/or inpatients. Patient care and processing of equipment may take place in this location.
1188-2	HSLOC	Р	Facility Grounds	Any outdoor area adjacent to a healthcare facility that belongs to the facility (e.g., sidewalks, parking ramps, lawns).
1250-0	HSLOC	Р	Facility-wide Inpatient (FacWIDEIn)	FACWIDEIN monitoring represents all inpatient locations for the facility, where appropriate numerator and denominator counts can be collected. All of the facility's inpatient locations with an overnight stay must be represented for full inpatient facility coverage.
1251-8	HSLOC	Р	Facility-wide Outpatient (FacWIDEOut)	FACWIDEOUT monitoring represents all outpatient locations for the facility, where appropriate numerator and denominator counts can be collected. All of the facility's outpatient locations must be represented for full outpatient facility coverage.
1117-1	HSLOC	Р	Family Medicine Clinic	An outpatient setting for patients who are managed by a family practice physician or group of physicians. Does not include private physician practice.
1206-2	HSLOC	Р	Float	For HCWs who do not work at least 75% of the time at a single location, the work location code for 'float' should be entered.
1118-9	HSLOC	Р	Gastrointestinal Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of conditions related to the gastrointestinal tract. Usually includes an endoscopy suite.
1054-6	HSLOC	Р	Gastrointestinal Ward	Area for the evaluation, treatment,

Value	Code System	Usage	Description	Comment
				or surgery of patients with disorders of the gastrointestinal tract.
1010-8	HSLOC	Р	General Laboratory	An area that encompasses all clinical divisions within a diagnostic laboratory.
1122-1	HSLOC	Р	Genetics Clinic	An outpatient setting for testing and counseling of patients with genetic or hereditary disorders.
1055-3	HSLOC	Р	Genitourinary Ward	Area for the evaluation, treatment, or surgery of patients with disorders of the genitourinary system.
1056-1	HSLOC	Р	Gerontology Ward	Area for the evaluation, treatment, or surgery of patients with age-related diseases.
1121-3	HSLOC	Р	Gynecology Clinic	An outpatient setting for the evaluation and treatment of women with reproductive tract conditions.
1057-9	HSLOC	Р	Gynecology Ward	Area for the evaluation, treatment, or surgery of female patients with reproductive tract disorders.
1012-4	HSLOC	Р	Hematology Laboratory	An area within a diagnostic laboratory that determines the specific properties of blood (e.g., CBC, white blood count).
1200-5	HSLOC	Р	Hematology-Oncology Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of persons with hematologic and/or oncologic disorders. This may include chemotherapy or blood/blood products infusion services.
1013-2	HSLOC	Р	Histology-Surgical Pathology Laboratory	An area within a diagnostic laboratory that uses high-power microscopy to evaluate cells and tissues for the presence or absence of disease.
1154-4	HSLOC	Р	HIV Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of persons who are HIV positive or who have AIDS.
1161-9	HSLOC	Р	Holistic Medicine Center	An outpatient setting where

Value	Code System	Usage	Description	Comment
				alternative healthcare practices are used, focusing on the physical, mental, emotional, social, and spiritual aspects of health.
1192-4	HSLOC	Р	Home Care	A patient's home location where medical services including routine noninvasive and other invasive procedures (e.g., insertion of indwelling urinary catheter, insertion of IV line) are performed by healthcare workers and family members under the supervision of a licensed independent practitioner (e.g., MD, CNP,PA).
1262-1	HSLOC	Р	Home Hemodialysis	Hemodialysis performed by an appropriately trained patient (and the patient's caregiver) and at home.
1194-0	HSLOC	Р	Home-based Hospice	A patient's home location where end-of-life services are performed by healthcare workers, family members, and volunteers.
1182-5	HSLOC	Р	Housekeeping/Environmental Services	An area within a healthcare facility where the activities of housekeeping/environmental services staff are coordinated and supplies are stored.
1017-3	HSLOC	Р	Hyperbaric Oxygen Center	An outpatient setting where therapeutic hyperbaric oxygen is administered.
1018-1	HSLOC	Р	Infusion Center	An outpatient setting for the administration of fluids, blood products, and medications.
1165-0	HSLOC	Р	Inpatient Hospice	Area where pallative care is provided to the dying patient.
1203-9	HSLOC	Р	Interventional Radiology	A room where diagnostic or therapeutic radiology procedures are done on outpatients or inpatients. Operating room requirements for air changes, temperature, humidity, and surfaces must be met.
1171-8	HSLOC	Р	Jail Unit	Overnight stay patient care area of

Value	Code System	Usage	Description	Comment
				a hospital or correctional facility used only for those who are in custody of law enforcement during their treatment.
1058-7	HSLOC	Р	Labor and Delivery Ward	Area where women labor and give birth.
1059-5	HSLOC	Р	Labor, Delivery, Recovery, Postpartum Suite	Suite used for labor, delivery, recovery and postpartum care all within the same suite.
1183-3	HSLOC	P	Laundry Room	An area within a healthcare facility where laundry is sorted, washed, dried, and prepared for transport and use.
1204-7	HSLOC	Р	Location outside facility	A location outside this facility, including unknown outside location.
1220-3	HSLOC	Р	Long Term Acute Care Intensive Care Unit	Critical care area specializing in the evaluation, treatment, and management of patients that require high observation/acuity and/or special care that are suffering medically complex conditions or who have suffered recent catastrophic illness or injury, and require and extended stay in an acute care environment.
1222-9	HSLOC	Р	Long Term Acute Care Pediatric Intensive Care Unit	Critical care area specializing in the evaluation, treatment, and management of patients <= 18 years old, that require high observation/acuity and/or special care that are suffering medically complex conditions or who have suffered recent catastrophic illness or injury, and require an extended stay in an acute care environment.
1214-6	HSLOC	P	Long Term Acute Care Pediatric Ward	Hospital area for the evaluation and treatment of patients <= 18 years old, suffering medically complex conditions or who have suffered recent catastrophic illness or injury, and require an extended stay in an acute care environment.
1221-1	HSLOC	Р	Long Term Acute Care Ward	Hospital area for the evaluation

Value	Code System	Usage	Description	Comment
				and treatment of patients suffering medically complex conditions or who have suffered recent catastrophic illness or injury, and require an extended stay in an acute care environment.
1260-9	HSLOC	Р	Long Term Care Facility Bariatric Unit	A unit or designated area which provides specialized care for individuals who are preparing for or have undergone bariatric surgery.
1255-9	HSLOC	Р	Long Term Care Facility Dementia Unit	A unit or designated area which provides specialized care for individuals diagnosed with dementia or related conditions, including Alzheimer's disease.
1258-3	HSLOC	Р	Long Term Care Facility General Nursing Unit	A unit or designated area which primarily provides nursing, rehabilitative or custodial services to individuals with varying levels of chronic conditions or disability requiring long term (>90 days) support.
1254-2	HSLOC	Р	Long Term Care Facility Inpatient Hospice Unit	A unit or designated area which provides palliative and supportive care services to individuals diagnosed with life limiting (terminal) conditions.
1256-7	HSLOC	Р	Long Term Care Facility Psychiatric Unit	Unit or designated area which provides specialized care for individuals diagnosed with psychiatric or behavioral disorders.
1257-5	HSLOC	Р	Long Term Care Facility Skilled Nursing- Short Term Rehabilitation Unit	A unit or designated area which primarily provides short term (<90 days), medical, skilled nursing or rehabilitation services to individuals requiring restorative care following recent hospitalization.
1259-1	HSLOC	Р	Long Term Care Facility Ventilator Dependent Unit	A unit or designated area which provides nursing and respiratory care to individuals who require mechanical ventilation.
1090-0	HSLOC	Р	Long-Term Acute Care	Area that provides acute care services to patients suffering

Value	Code System	Usage	Description	Comment
				medically complex conditions, or patients who have suffered recent catastrophic illness or injury and require an extended stay in an acute care environment.
1028-0	HSLOC	Р	Medical Cardiac Critical Care	Critical care area for the care of patients with serious heart problems that do not require heart surgery.
1120-5	HSLOC	Р	Medical Clinic	An outpatient setting for the diagnosis, evaluation and treatment of medical disorders.
1027-2	HSLOC	Р	Medical Critical Care	Critical care area for the care of patients who are being treated for nonsurgical conditions.
1060-3	HSLOC	Р	Medical Ward	Area for the evaluation and treatment of patients with medical conditions or disorders.
1029-8	HSLOC	Р	Medical-Surgical Critical Care	Critical care area for the care of patients with medical and/or surgical conditions.
1061-1	HSLOC	Р	Medical-Surgical Ward	Area for the evaluation of patients with medical and/or surgical conditions.
1014-0	HSLOC	Р	Microbiology Laboratory	An area within a laboratory that performs diagnostic tests to determine the presence or absence of bacteria and their related properties.
1212-0	HSLOC	Р	Mixed Age Mixed Acuity Unit	Hospital area for the evaluation and treatment of a mixture of adult and pediatric patients whose conditions are of varying levels of acuity (e.g., critical care, ward-level care, step-down type care, etc.). Such a care area may be comprised of patients followed by different hospital services (e.g., coronary, medical, surgical, etc.). This care area may or may not include "acuity adaptable" or "universal" beds (i.e., this model of patient care allows a patient to stay

Value	Code System	Usage	Description	Comment
				in same bed during all phases of his care, from critical care through lower levels of care).
1176-7	HSLOC	Р	Mobile Blood Collection center	A self-contained mobile unit such as a bus or trailer that is specifically designed and equipped for the collection of blood and blood products from public donors. This unit typically moves from location to location.
1174-2	HSLOC	Р	Mobile Emergency Services/EMS	Mobile unit that provides clinical and emergency medical services to patients who require them in the pre-hospital setting.
1175-9	HSLOC	Р	Mobile MRI/CT	A self-contained mobile unit such as a bus or trailer that is equipped with MRI or CT radiologic equipment and that may be moved between healthcare locations (e.g., hospitals, clinics).
1189-0	HSLOC	Р	Morgue/Autopsy Room	An area within a facility that is used for the storage and/or postmortem examination of deceased persons.
1040-5	HSLOC	Р	Neonatal Critical Care (Level III)	Critical care area for the care of newborns and infants with serious illness requiring Level III care; area is supervised by a neonatologist.
1039-7	HSLOC	Р	Neonatal Critical Care(Level II/III)	Combined nursery housing both Level II and III newborns and infants
1037-1	HSLOC	Р	Neonatal unit	Hospital unit specialized for care newborns and infants.
1135-3	HSLOC	Р	Nephrology clinic	An outpatient setting for the evaluation and treatment of persons with genitourinary tract conditions.
1035-5	HSLOC	Р	Neurologic Critical Care	Critical care area for the care of patients with life-threatening neurologic diseases.
1123-9	HSLOC	Р	Neurology Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of persons with neurologic disorders.

Value	Code System	Usage	Description	Comment
1062-9	HSLOC	Р	Neurology Ward	Area for the evaluation and treatment of patients with neurologic disorders.
1031-4	HSLOC	Р	Neurosurgical Critical Care	Critical care area for the surgical management of patients with severe neurologic diseases or those at risk for neurologic injury as a result of surgery.
1063-7	HSLOC	Р	Neurosurgical Ward	Area for the care of patients whose primary reason for admission is to have neurosurgery or to be cared for by a neurosurgeon after head or spinal trauma.
1151-0	HSLOC	Р	Occupational Health Clinic	An outpatient setting where workplace physicals, workplace injury management, and immunologic evaluations take place.
1152-8	HSLOC	Р	Occupational Therapy Clinic	An outpatient setting where persons with injury or disability are helped to resume activities of daily living with exercise, massage, and other therapies.
1232-8	HSLOC	Р	Oncology General Hematology- Oncology Ward	Area for the evaluation and treatment of patients with cancer and/or blood disorders.
1231-0	HSLOC	Р	Oncology Hematopoietic Stem Cell Transplant Ward	Area for the care of patients who undergo stem cell transplant for the treatment of cancers and/or blood or immune system disorders.
1226-0	HSLOC	Р	Oncology Leukemia Ward	Area for the evaluation and treatment of patients with leukemia.
1229-4	HSLOC	Р	Oncology Leukemia-Lymphoma Ward	Area for the evaluation and treatment of patients with leukemia and/or lymphoma.
1228-6	HSLOC	Р	Oncology Lymphoma Ward	Area for the evaluation and treatment of patients with lymphoma.
1223-7	HSLOC	Р	Oncology Medical Critical Care	Critical care area for the care of oncology patients who are being treated for nonsurgical conditions related to their malignancy.
1225-2	HSLOC	Р	Oncology Medical-Surgical Critical Care	Critical care area for the care of

Value	Code System	Usage	Description	Comment
				oncology patients with medical and/or surgical conditions related to their malignancy.
1236-9	HSLOC	Р	Oncology Mixed Acuity Unit (all ages)	Area for the evaluation and treatment of a mixture of adult and pediatric oncology patients whose conditions are of varying levels of acuity (e.g., critical care, ward-level care, step-down type care, etc.). This care area may or may not include "acuity adaptable" or universal beds (i.e. this model of patient care allows a patient to stay in the same bed during all phases of care, from critical care through lower levels of care.)
1233-6	HSLOC	Р	Oncology Pediatric Critical Care	Critical care area for the care of oncology patients =18 years old who are being treated for surgical or nonsurgical conditions related to their malignancy.
1235-1	HSLOC	Р	Oncology Pediatric General Hematology-Oncology Ward	Area for the evaluation and treatment of patients =18 years old with cancer and/or blood disorders.
1234-4	HSLOC	Р	Oncology Pediatric Hematopoietic Stem Cell Transplant Ward	Area for the care of patients =18 years old who undergo stem cell transplant for the treatment of cancers and/or blood or immune system disorders.
1230-2	HSLOC	Р	Oncology Solid Tumor Ward	Area for the evaluation and treatment of oncology patients with solid tumors.
1227-8	HSLOC	Р	Oncology Step Down Unit	Area for oncology patients who are hemodynamically stable and can benefit from close supervision and monitoring, such as frequent pulmonary toilet, vital signs, and/or neurologic and neurovascular checks.
1224-5	HSLOC	Р	Oncology Surgical Critical Care	Critical care area for the evaluation and management of oncology patients with serious illness before and/or after cancer-related surgery.

Value	Code System	Usage	Description	Comment
1094-2	HSLOC	Р	Operating and recovery rooms	Areas for the provision of surgical and immediate post-surgical care.
1096-7	HSLOC	Р	Operating Room/Suite	A room or suite in a hospital equipped for the performance of surgical operations. Requirements for air changes, temperature, humidity, and surfaces must be met.
1124-7	HSLOC	P	Ophthalmology Clinic	An outpatient setting for the diagnosis, evaluation and treatment of ophthalmalogic disorders.
1064-5	HSLOC	Р	Ophthalmology Ward	Area for the care of patients whose primary reason for admission is to have eye surgery or to be cared for by an ophthalmologist after eye trauma.
1125-4	HSLOC	Р	Orthopedic Clinic	An outpatient setting for the diagnosis, evaluation, and treatment of orthopedic disorders.
1066-0	HSLOC	Р	Orthopedic Trauma Ward	Area for the evaluation and treatment of patients with orthopedic injuries or disorders.
1065-2	HSLOC	Р	Orthopedic Ward	Area for the evaluation, treatment, or surgery on bones, joints, and associated structures by an orthopedist.
1149-4	HSLOC	Р	Ostomy Clinic	An outpatient setting for the management of persons who have had surgical procedure for removing normal bodily wastes through a surgical opening (stoma) on the abdominal wall.
1246-8	HSLOC	Р	Outpatient Ambulatory Pediatric Surgery Center	Area, in an ASC, that is equipped for the performance of surgical operations for persons =18 years old; may be free-standing or part of a hospital. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met. Patients do not stay overnight.
1247-6	HSLOC	Р	Outpatient Ambulatory Plastic Surgery	Area, in an ASC, that is equipped

Value	Code System	Usage	Description	Comment
			Center	for the performance of plastic surgery operations; may be free-standing or part of a hospital. Operating Room requirements for air changes, temperature, humidity, and surfaces must be met. Patients do not stay overnight.
1153-6	HSLOC	Р	Outpatient Hemodialysis Clinic	An outpatient setting where chronic hemodialysis patients are evaluated and receive dialysis several times weekly.
1268-2	HSLOC	Р	Outpatient Hemodialysis Clinic - Acute Kidney Injury	An outpatient setting where Acute Kidney Injury patients are evaluated and receive dialysis several times weekly.
1219-5	HSLOC	Р	Outpatient Hemodialysis Clinic (in Inpatient Facility)	An outpatient setting where chronic hemodialysis patients are evaluated and receive dialysis several times weekly IP facilities
1242-7	HSLOC	Р	Outpatient Operating Room/Suite (Attached)	A room or suite equipped for the performance of surgical operations that is physically within the walls of the affiliated ACH. It is considered a hospital outpatient department used for outpatient surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1244-3	HSLOC	Р	Outpatient Operating Room/Suite (Detached)	A room or suite equipped for the performance of surgical operations that is not physically attached to the affiliated ACH (could be on the same campus or miles away). It is considered a hospital outpatient department used for outpatient surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1127-0	HSLOC	Р	Pain Clinic	An outpatient setting for the evaluation and treatment of persons with chronic or intractable pain.
1146-0	HSLOC	Р	Pediatric Behavioral Health Clinic	An outpatient setting for the

Value	Code System	Usage	Description	Comment
				evaluation and management of persons =18 years old with psychiatric or behavior disorders.
1077-7	HSLOC	Р	Pediatric Behavioral Health Ward	Area for the evaluation and treatment of patients =18 years old with acute psychiatric or behavioral disorders.
1042-1	HSLOC	P	Pediatric Burn Critical Care	Critical care area for the care of patients =18 years old with significant/major burns.
1078-5	HSLOC	Р	Pediatric Burn Ward	Area for the evaluation and treatment of patients =18 years old who have tissue injury caused by burns.
1129-6	HSLOC	Р	Pediatric Cardiology Center	An outpatient setting for the evaluation and management of persons =18 years old with cardiac disorders.
1043-9	HSLOC	Р	Pediatric Cardiothoracic Critical Care	Critical care area for the care of patients =18 years old following cardiac and thoracic surgery.
1128-8	HSLOC	Р	Pediatric Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old.
1130-4	HSLOC	Р	Pediatric Dental Clinic	An outpatient setting that provides dental services, including preventive teeth cleaning, emergency treatment, and comprehensive oral care to persons =18 years old. This may be a private or group practice or a teaching facility for dentists and/or dental hygienists.
1131-2	HSLOC	Р	Pediatric Dermatology Clinic	An outpatient setting for the evaluation and management of persons =18 years old with dermatologic disorders.
1132-0	HSLOC	Р	Pediatric Diabetes-Endocrinology Clinic	An outpatient setting for the evaluation and management of persons =18 years old with diabetes or other endocrine disorders.
1091-8	HSLOC	Р	Pediatric Dialysis Specialty Care Area	Specialty care area for the care of

Value	Code System	Usage	Description	Comment
				patients =18 years old who require acute dialysis as a temporary measure.
1079-3	HSLOC	Р	Pediatric Ear, Nose, Throat Ward	Area for the evaluation and treatment of patients =18 years old with disorders of the ear, nose, and/or throat.
1109-8	HSLOC	P	Pediatric Emergency Department	Area that provides emergency medical services to patients =18 years old; top priority is given to those with life-threatening illness or injury.
1119-7	HSLOC	Р	Pediatric Gastrointestinal Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with gastrointestinal disorders.
1080-1	HSLOC	Р	Pediatric Genitourinary Ward	Area for the evaluation and treatment of patients =18 years old with disorders of the genitourinary system.
1136-1	HSLOC	Р	Pediatric Hematology-Oncology Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with cancer and/or blood disorders.
1044-7	HSLOC	Р	Pediatric Medical Critical Care	Critical care area for the care of patients =18 years old who are being treated for nonsurgical conditions.
1076-9	HSLOC	Р	Pediatric Medical Ward	Area for the evaluation and treatment of patients =18 years of old with medical conditions or disorders.
1045-4	HSLOC	Р	Pediatric Medical-Surgical Critical Care	Critical care area for the care of patients =18 years old with medical and/or surgical conditions.
1081-9	HSLOC	Р	Pediatric Medical-Surgical Ward	Area for the evaluation and treatment of patients =18 years old with medical and/or surgical conditions.
1211-2	HSLOC	Р	Pediatric Mixed Acuity Unit	Hospital area for the evaluation and treatment of pediatric patients (<= 18 years old) whose conditions are of varying levels of acuity (e.g.,

Value	Code System	Usage	Description	Comment
				critical care, ward-level care, step-down type care, etc.). Such a care area may be comprised of patients followed by different hospital services (e.g., coronary, medical, surgical, etc.). This care area may or may not include "acuity adaptable" or "universal" beds (i.e., this model of patient care allows a patient to stay in same bed during all phases of his care, from critical care through lower levels of care).
1137-9	HSLOC	Р	Pediatric Nephrology Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with disorders of the genitourinary tract.
1082-7	HSLOC	Р	Pediatric Neurology Ward	Area for the evaluation and treatment of patients =18 years old with neurologic disorders.
1046-2	HSLOC	Р	Pediatric Neurosurgical Critical Care	Critical care area for the surgical management of patients =18 years old with severe neurologic diseases or those at risk for neurologic injury as a result of surgery.
1083-5	HSLOC	Р	Pediatric Neurosurgical Ward	Area for care of patients =18 years old whose primary reason for admission is to have neurosurgery or to be cared for by a neurosurgeon after head or spinal trauma.
1133-8	HSLOC	Р	Pediatric Orthopedic Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with fractures or other orthopedic disorders.
1084-3	HSLOC	Р	Pediatric Orthopedic Ward	Area for the evaluation and treatment of patients =18 years old with orthopedic injuries or disorders.
1248-4	HSLOC	Р	Pediatric Outpatient Operating Room/Suite (Attached)	A room or suite equipped for the performance of pediatric surgical operations that is physically within the walls of the affiliated ACH. It is

Value	Code System	Usage	Description	Comment
				considered a hospital outpatient department used for outpatient pediatric surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1249-2	HSLOC	Р	Pediatric Outpatient Operating Room/Suite (Detached)	A room or suite equipped for the performance of pediatric surgical operations that is not physically attached to the affiliated ACH (could be on the same campus or miles away). It is considered a hospital outpatient department used for outpatient pediatric surgical procedures. Requirements for air changes, temperature, humidity, and surfaces must be met.
1085-0	HSLOC	Р	Pediatric Rehabilitation Ward (within Acute Care Hospital)	Area for the evaluation and restoration of function to patients = 18 years old who have lost function due to acute or chronic pain, musculoskeletal problems, stroke, or catastrophic events resulting in complete or partial paralysis.
1047-0	HSLOC	Р	Pediatric Respiratory Critical Care	Critical care area for the evaluation and treatment of patients =18 years old with severe respiratory conditions.
1138-7	HSLOC	Р	Pediatric Rheumatology Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with rheumatology disorders.
1134-6	HSLOC	Р	Pediatric Scoliosis Clinic	An outpatient setting for the evaluation and treatment of persons =18 years old with scoliosis or other growth disorders of the spine.
1093-4	HSLOC	Р	Pediatric Solid Organ Transplant Specialty Care Area	Specialty care area for the postoperative care of patients =18 years old who have had a solid organ transplant (e.g., heart/lung, kidney, liver, pancreas).

Value	Code System	Usage	Description	Comment
1100-7	HSLOC	Р	Pediatric Step-Down Unit	Area for patients =18 years old who are hemodynamically stable and can benefit from close supervision and monitoring, such as frequent pulmonary toilet, vital signs, and/or neurologic and neurovascular checks. (post-critical care)
1048-8	HSLOC	Р	Pediatric Surgical Critical Care	Critical care area for the evaluation and management of patients =18 years old with serious illness before and/or after surgery.
1086-8	HSLOC	P	Pediatric Surgical Ward	Area for the evaluation and treatment of patients =18 years old who have undergone a surgical procedure.
1049-6	HSLOC	Р	Pediatric Trauma Critical Care	Critical care area for the care of patients =18 years old who require a high level of monitoring and/or intervention following trauma or during critical illness related to trauma.
1074-4	HSLOC	Р	Pediatric ward	Hospital setting for provision of routine pediatric inpatient care.
1179-1	HSLOC	Р	Pharmacy	An area within a healthcare facility where medications are prepared and labeled for patient use.
1181-7	HSLOC	Р	Physical Plant Operations Center	An area within a healthcare facility where construction, renovation, and maintenance staff activities and supplies are coordinated. This may also include areas of machinery and equipment.
1202-1	HSLOC	Р	Physical Therapy Clinic	An outpatient setting where persons with injury or disability are helped to obtain maximum physical function.
1141-1	HSLOC	Р	Physician's Office	A physician's office practice.
1067-8	HSLOC	Р	Plastic Surgery Ward	Area for the care of patients who have reconstructive surgery performed by a plastic surgeon.
1140-3	HSLOC	Р	Podiatry Clinic	An outpatient setting for the evaluation and treatment of patients with conditions or

Value	Code System	Usage	Description	Comment
				disorders of the feet.
1169-2	HSLOC	Р	Post-Anesthesia Care Unit	Area designated for monitoring patients for the immediate effects of anesthesia before being sent home.
1097-5	HSLOC	Р	Post-Anesthesia Care Unit/Recovery Room	Area designated for monitoring patients for immediate effects of anesthesia before either going home or on to an in-patient care area.
1068-6	HSLOC	Р	Postpartum Ward	Area for the care of patients recovering from childbirth.
1156-9	HSLOC	Р	Prenatal Clinic	An outpatient setting for the evaluation and treatment of pregnant women.
1034-8	HSLOC	Р	Prenatal Critical Care	Critical care area for the care of pregnant patients with complex medical or obstetric problems requiring a high level of care to prevent the loss of the fetus and to protect the life of the mother.
1180-9	HSLOC	Р	Public Area in Facility	Any indoor area within a healthcare facility that is not used for patient care and that is available to the public (e.g., waiting rooms, cafeterias, hallways).
1157-7	HSLOC	Р	Pulmonary Clinic	An outpatient setting for the evaluation and treatment of persons with disorders of the respiratory tract.
1009-0	HSLOC	Р	Pulmonary Function Testing	Area where the evaluation of a patient's respiratory status takes place.
1069-4	HSLOC	Р	Pulmonary Ward	Area for the evaluation and treatment of patients with respiratory system conditions or disorders.
1008-2	HSLOC	P	Radiology	An area where diagnostic or therapeutic radiologic procedures are done on outpatients and/or inpatients. Operating room requirements for air changes, temperature, humidity, and

Value	Code System	Usage	Description	Comment
				surfaces are NOT met.(includes Nuclear Medicine)
1155-1	HSLOC	Р	Rehabilitation Clinic	An outpatient setting where persons with injury or disability are evaluated and treated to resume activities of daily living, speech and language skills, and maximum physical function. This may include social and psychological evaluation and treatment.
1218-7	HSLOC	Р	Rehabilitation Pediatric Ward (freestanding Inpatient Rehabilitation Facility)	Hospital area for evaluation, treatment, and restoration of function to patients <= 18 years old who have lost function due to acute or chronic pain, musculoskeletal problems, stroke, brain or spinal cord dysfunction, or catastrophic events resulting in complete or partial paralysis.
1217-9	HSLOC	Р	Rehabilitation Ward (freestanding Inpatient Rehabilitation Facility)	Hospital area for evaluation, treatment, and restoration of function to patients have lost function due to acute or chronic pain, musculoskeletal problems, stroke, brain or spinal cord dysfunction, or catastrophic events resulting in complete or partial paralysis.
1070-2	HSLOC	Р	Rehabilitation Ward (within Acute Care Hospital)	Area for the evaluation and restoration of function to patients who have lost function due to acute or chronic pain, musculoskeletal problems, stroke, or catastrophic events resulting in complete or partial paralysis.
1033-0	HSLOC	Р	Respiratory Critical Care	Critical care area for the evaluation and treatment of patients with severe respiratory conditions.
1142-9	HSLOC	Р	Rheumatology Clinic	An outpatient setting for the evaluation and treatment of persons with autoimmune disorders, primarily rheumatoid arthritis.
1172-6	HSLOC	Р	School Infirmary	Overnight stay patient care area of

Value	Code System	Usage	Description	Comment
				a school infirmary or health center (e.g., private residential school or college campus).
1170-0	HSLOC	Р	School or Prison Infirmary	Area in a school or correctional facility that provides medical care to students/inmates. This area is not staffed or equipped for overnight stay patients.
1201-3	HSLOC	Р	Scoliosis clinic	An outpatient setting for the evaluation and treatment of persons with scoliosis or other growth disorders of the spine.
1015-7	HSLOC	Р	Serology Laboratory	An area within a diagnostic laboratory that performs blood tests to determine the presence or absence of certain diseases or the levels of immunity.
1020-7	HSLOC	Р	Sleep Study Unit	Area where patients stay overnight and are evaluated for sleep disorders. (for inpatients and outpatients)
1190-8	HSLOC	Р	Soiled Utility Area	Area where used and/or soiled disposable or durable medical equipment is stored and/or cleaned in preparation for disposal or reprocessing/reuse.
1092-6	HSLOC	Р	Solid Organ Transplant Specialty Care Area	Specialty care area for the postoperative care of patients who have had a solid organ transplant (e.g., heart/lung, kidney, liver, pancreas).
1196-5	HSLOC	Р	Specimen Collection Area (Community)	A location not designed or equipped to perform healthcare functions (e.g., school gym or shopping mall) that has been set up specifically to collect body fluids for healthcare testing. Examples would be blood sugar or cholesterol screening clinics.
1019-9	HSLOC	Р	Specimen Collection Area (Healthcare)	An area within a healthcare facility where procedures are performed to collect blood, tissue, and other specimens for diagnostic purposes.

Value	Code System	Usage	Description	Comment
1158-5	HSLOC	Р	Speech Therapy Clinic	An outpatient setting for the evaluation and treatment of persons with brain injury to maximize their speech, swallow, and language functions.
1041-3	HSLOC	Р	Step down Neonatal Nursery (Level II)	Area for newborns and infants who are not critically ill but who may remain in the nursery for extended observation or to increase weight.
1071-0	HSLOC	Р	Stroke (Acute) Ward	Area for the evaluation, stabilization, and treatment of patients who have experienced an acute stroke.
1032-2	HSLOC	Р	Surgical Cardiothoracic Critical Care	Critical care area for the care of patients following cardiac and/or thoracic surgery.
1030-6	HSLOC	Р	Surgical Critical Care	Critical care area for the evaluation and management of patients with serious illness before and/or after surgery.
1143-7	HSLOC	Р	Surgical Services Clinic	An outpatient setting for the preoperative evaluation and the postoperative management of patients undergoing a surgical procedure.
1072-8	HSLOC	Р	Surgical Ward	Area for the evaluation and treatment of patients who have undergone a surgical procedure.
1208-8	HSLOC	Р	Telemetry Ward	Hospital area dedicated to providing evaluation and treatment of patients requiring continuous cardiac monitoring
1207-0	HSLOC	Р	Therapeutic Apheresis Clinic	Outpatient setting where blood is collected from patients and therapeutic apheresis procedures are performed.
1178-3	HSLOC	Р	Transport Service	Mobile unit used to transport patients to their home or from one healthcare setting to another non-emergently.
1025-6	HSLOC	Р	Trauma Critical Care	Critical care area for the care of patients who require a high level of monitoring and/or intervention

Value	Code System	Usage	Description	Comment
				following trauma or during critical illness related to trauma.
1209-6	HSLOC	Р	Treatment Room	A room in a patient care unit, in which various treatments or procedures requiring special equipment are performed, such as removing sutures, draining a hematoma, packing a wound, or performing an examination.
1160-1	HSLOC	Р	Urgent Care Center	Area that provides medical care services for illnesses and injuries that are not life-threatening.
1073-6	HSLOC	Р	Vascular Surgery Ward	Area for the evaluation and treatment of patients who have undergone vascular surgery.
1164-3	HSLOC	Р	Ventilator Dependent Unit	Area where care is provided to patients whose respirations depend on the use of a ventilator for extended periods of time.
1016-5	HSLOC	Р	Virology Laboratory	An area within a diagnostic laboratory that performs tests and/or culturing to determine the presence or absence of specific viruses.
1139-5	HSLOC	Р	Well Baby Clinic	An outpatient setting for the examination and treatment of normal newborns.
1038-9	HSLOC	Р	Well Baby Nursery (Level I)	Area for normal newborns with no identified health problems.
1144-5	HSLOC	Р	Wound Center	An outpatient setting for the evaluation and treatment of persons with acute or chronic wounds.
1159-3	HSLOC	Р	Wound Ostomy Continence Clinic	An outpatient area that provides acute and rehabilitative care for people with selective disorders of the gastrointestinal, genitourinary, and integumentary (skin) systems.

3.4.52 PHVS_HEIGHTUNIT_UCUM - HEIGHT UNIT

Units for measuring height

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.891

Codes

Value	Code System	Usage	Description	Comment
cm	UCUM	Р	Centimeter [SI Length Units]	
[ft_us]	UCUM	Р	foot	
[in_us]	UCUM	Р	inch	
m	UCUM	Р	meter	

3.4.53 PHVS_HEIGHTUNIT_UCUM - HEIGHT UNIT

Units for measuring height

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.891

Codes

Value	Code System	Usage	Description	Comment
cm	UCUM	Р	Centimeter [SI Length Units]	
[ft_us]	UCUM	Р	foot	
[in_us]	UCUM	Р	inch	
m	UCUM	Р	meter	

3.4.54 PHVS_IDENTIFIERTYPE_SYNDROMICSURVEILLANCE - IDENTIFIER TYPE (SYNDROMIC SURVEILLANCE)

Subset of HL7 2.x Identifier Type table (excluding organization identifier)

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3597

Value	Code System	Usage	Description	Comment
AN	HL70203	Р	Account number	
ANC	HL70203	Р	Account number Creditor	
AND	HL70203	Р	Account number Debtor	
APRN	HL70203	Р	Advanced Practice Registered Nurse number	
AM	HL70203	Р	American Express	
ANON	HL70203	Р	Anonymous identifier	
ВА	HL70203	Р	Bank Account Number	

Value	Code System	Usage	Description	Comment
ВС	HL70203	Р	Bank Card Number	
BR	HL70203	Р	Birth registry number	
CY	HL70203	Р	County number	
DDS	HL70203	Р	Dentist license number	
DI	HL70203	Р	Diner's Club card	
DS	HL70203	Р	Discover Card	
DN	HL70203	Р	Doctor number	
DR	HL70203	Р	Donor Registration Number	
DL	HL70203	Р	Driver's license number	
DEA	HL70203	Р	Drug Enforcement Administration registration number	
DFN	HL70203	Р	Drug Furnishing or prescriptive authority Number	
El	HL70203	Р	Employee number	
GL	HL70203	Р	General ledger number	
GN	HL70203	Р	Guarantor external identifier	
GI	HL70203	Р	Guarantor internal identifier	
HC	HL70203	Р	Health Card Number	
IND	HL70203	Р	Indigenous/Aboriginal	
JHN	HL70203	Р	Jurisdictional health number (Canada)	
LI	HL70203	Р	Labor and industries number	
LN	HL70203	Р	License number	
PE	HL70203	Р	Living Subject Enterprise Number	
LR	HL70203	Р	Local Registry ID	
MS	HL70203	Р	MasterCard	
MD	HL70203	Р	Medical License number	
MR	HL70203	Р	Medical record number	
UPIN	HL70203	Р	Medicare/CMS (formerly HCFA)_s Universal Physician Identification numbers	
MB	HL70203	Р	Member Number	
MCN	HL70203	Р	Microchip Number	
MI	HL70203	Р	Military ID number	
NH	HL70203	Р	National Health Plan Identifier	
NII	HL70203	Р	National Insurance Organization Identifier	
NNxxx	HL70203	Р	National Person Identifier where the xxx is the ISO table 3166 3-character (alphabetic) country code	
NPI	HL70203	Р	National provider identifier	

Value	Code System	Usage	Description	Comment
NI	HL70203	Р	National unique individual identifier	
NP	HL70203	Р	Nurse practitioner number	
OD	HL70203	Р	Optometrist license number	
DO	HL70203	Р	Osteopathic License number	
PPN	HL70203	Р	Passport number	
PT	HL70203	Р	Patient external identifier	
PI	HL70203	Р	Patient internal identifier	
MA	HL70203	Р	Patient Medicaid number	
MC	HL70203	Р	Patient's Medicare number	
PCN	HL70203	Р	Penitentiary/correctional institution Number	
PEN	HL70203	Р	Pension Number	
PRC	HL70203	Р	Permanent Resident Card Number	
PN	HL70203	Р	Person number	
RPH	HL70203	Р	Pharmacist license number	
PA	HL70203	Р	Physician Assistant number	
DPM	HL70203	Р	Podiatrist license number	
MCD	HL70203	Р	Practitioner Medicaid number	
MCR	HL70203	Р	Practitioner Medicare number	
PRN	HL70203	Р	Provider number	
QA	HL70203	Р	QA number	
RR	HL70203	Р	Railroad Retirement number	
RRI	HL70203	Р	Regional registry ID	
RN	HL70203	Р	Registered Nurse Number	
RI	HL70203	Р	Resource identifier	
SS	HL70203	Р	Social Security number	
SL	HL70203	Р	State license	
SR	HL70203	Р	State registry ID	
SN	HL70203	Р	Subscriber Number	
TAX	HL70203	Р	Tax ID number	
ANT	HL70203	Р	Temporary Account Number	
PNT	HL70203	Р	Temporary Living Subject Number	
MRT	HL70203	Р	Temporary Medical Record Number	
TN	HL70203	Р	Treaty Number/ (Canada)	
U	HL70203	Р	Unspecified identifier	
VS	HL70203	Р	VISA	
VN	HL70203	Р	Visit number	
WC	HL70203	Р	WIC identifier	

Value	Code System	Usage	Description	Comment
WCN	HL70203	Р	Workers_ Comp Number	

3.4.55 PHVS MEDICATIONBRANDNAME HITSP - MEDICATION BRAND NAME VALUE SET

This identifies the product brand name of drugs, such as Tylenol, Claritin, etc. Shall contain RxNorm normal forms for concepts type of "Brand Name" or Brand Name Packs.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.80.16

3.4.56 PHVS MEDICATIONBRANDNAME HITSP - MEDICATION BRAND NAME VALUE SET

This identifies the product brand name of drugs, such as Tylenol, Claritin, etc. Shall contain RxNorm normal forms for concepts type of "Brand Name" or Brand Name Packs.

Reference URL: https://phinyads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.80.16

3.4.57 PHVS_MEDICATIONCLINICALDRUGNAME_HITSP - MEDICATION CLINICAL DRUG NAME VALUE SET

Shall contain RxNorm normal forms for concepts type of "Ingredient Name" or Generic Packs. The ingredient name concepts can be found in the RxNORM file RXCONSO.RRF selecting all terms where SAB=RXNORM (selecting the normal forms), and TTY=SCD (selecting the ingredient names) or TTY=GPCK (selecting the generic packs)

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.80.17

3.4.58 PHVS_MEDICATIONCLINICALDRUGNAME_HITSP - MEDICATION CLINICAL DRUG NAME VALUE SET

Shall contain RxNorm normal forms for concepts type of "Ingredient Name" or Generic Packs. The ingredient name concepts can be found in the RxNORM file RXCONSO.RRF selecting all terms where SAB=RXNORM (selecting the normal forms), and TTY=SCD (selecting the ingredient names) or TTY=GPCK (selecting the generic packs)

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.80.17

3.4.59 PHVS MESSAGESTRUCTURE SYNDROMICSURVEILLANCE - MESSAGE STRUCTURE (SYNDROMIC SURVEILLANCE)

List of HL7 Table 0354: Message Structure associated with Syndromic Surveillance

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6047

Codes

Value	Code System	Usage	Description	Comment
ADT_A01	HL70354	Р	A01, A04, A08, A13	A01, A04, A08, A13
ADT_A03	HL70354	Р	A03	A03
ORU_R01	HL70354	Р	R01	R01
ACK	HL70354	Р	Varies	Varies

3.4.60 PHVS MESSAGETYPE SYNDROMICSURVEILLANCE - MESSAGE TYPE (SYNDROMIC SURVEILLANCE)

List of Table 0076 Message Types supported by Syndromic Surveillance IG

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6049

Codes

Value	Code System	Usage	Description	Comment
ADT	HL70076	Р	ADT message	
ACK	HL70076	Р	General acknowledgment message	
ORU	HL70076	IP .	Unsolicited transmission of an observation message	

3.4.61 PHVS MICROORGANISM CDC - MICROORGANISM

Microorganisms/infectious agents

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1009

3.4.62 PHVS_NAMETYPE_SYNDROMICSURVEILLANCE - NAME TYPE (SYNDROMIC SURVEILLANCE)

Contains the constrained value set for syndromic surveillance (ED) IG with Legal, pseudonym and Unspecified name types.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6056

Value	Code System	Usage	Description	Comment
S	HL70200	IP	Coded Pseudo-Name to ensure anonymity	
L	HL70200	Р	Legal Name	
U	HL70200	Р	Unspecified	

3.4.63 PHVS_OBSERVATIONIDENTIFIER_SYNDROMICSURVEILLANCE - OBSERVATION IDENTIFIER (SYNDROMIC SURVEILLANCE)

List of observation identifiers associated with syndromic surveillance that would be coming in the observation identifier field (OBX-3) in HL7 2.x messaging.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3589

Codes

Value	Code System	Usage	Description	Comment
11283-9	LN	Р	Acuity assessment [Function] at First encounter	
21612-7	LN	Р	Age:Time:Pt:Patient:Qn:Reported	
39156-5	LN	Р	ВМІ	
11289-6	LN	Р	Body temperature:Temp:Enctr-frst:Patient:Qn:	
8661-1	LN	Р	Chief complaint:Find:Pt:Patient:Nom:Reported	
44833-2	LN	Р	Diagnosis.preliminary:Imp:Pt:Patient:Nom:	
SS003	PHINQUESTION	Р	Facility / Visit Type	
11368-8	LN	Р	Illness or injury onset date and time:TmStp:Pt:Patient:Qn:	
8677-7	LN	Р	Medication use Hx Reported	
10160-0	LN	Р	Medication use Hx Reported	
59408-5	LN	Р	Oxygen saturation:MFr:Pt:BldA:Qn:Pulse oximetry	
56816-2	LN	Р	Patient location	
11449-6	LN	Р	Pregnancy status - reported	
11450-4	LN	Р	Problem list Reported	
54582-2	LN	Р	Provider type [MDSv3]	
72166-2	LN	Р	Tobacco smoking status	
10182-4	LN	Р	Travel Hx Reported	
SS001	PHINQUESTION	Р	Treating Facility Identifier	
SS002	PHINQUESTION	Р	Treating Facility Location	
54094-8	LN	Р	Triage note:Find:Pt:Emergency department:Doc:	

3.4.64 PHVS_OBSERVATIONRESULTSTATUS_HL7_2X - OBSERVATION RESULT STATUS (HL7)

The status of the observation. This field is required when the OBX segment is contained in a message. Uses HL7 2.5 Table 0085-Observation Result Status.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.811

Codes

Value	Code System	Usage	Description	Comment
D	HL70085	Р	Deletes the OBX record	
F	HL70085	Р	Final results; Can only be changed with a corrected result.	
N	HL70085	Р	Not asked; used to affirmatively document that the observation identified in the OBX was not sought when the universal service ID in OBR-4 implies that it would be sought.	
0	HL70085	Р	Order detail description only (no result)	
S	HL70085	Р	Partial results	
W	HL70085	Р	Post original as wrong, e.g., transmitted for wrong patient	
Р	HL70085	Р	Preliminary results	
С	HL70085	Р	Record coming over is a correction and thus replaces a final result	
х	HL70085	Р	Results cannot be obtained for this observation	
R	HL70085	Р	Results entered not verified	
U	HL70085	Р	Results status change to final without retransmitting results already sent as preliminary. For example, radiology changes status from preliminary to final.	
	HL70085	Р	Specimen in lab; results pending	

3.4.65 PHVS_PATIENTCLASS_SYNDROMICSURVEILLANCE - PATIENT CLASS (SYNDROMIC SURVEILLANCE)

Patient classification within facility

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3404

Value	Code System	Usage	Description	Comment
D	HL70004	Р	Direct admit	
E	HL70004	Р	Emergency	
	HL70004	Р	Inpatient	
V	HL70004	Р	Observation patient	
В	HL70004	Р	Obstetrics	
0	HL70004	Р	Outpatient	

Value	Code System	Usage	Description	Comment
Р	HL70004	Р	Preadmit	
R	HL70004	Р	Recurring patient	

3.4.66 PHVS PROBLEMLIST HITSP - PROBLEM VALUE SET

This describes the problem. Diagnosis/Problem List is broadly defined as a series of brief statements that catalog a patient?s medical, nursing, dental, social, preventative and psychiatric events and issues that are relevant to that patient?s healthcare (e.g., signs, symptoms, and defined conditions). Contains descendants of SNOMED CT codes 404684003 (Signs and Symptoms) and 243796009 (Situation with explicit context).

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.7.4

3.4.67 PHVS_PULSEOXIMETRYUNIT_UCUM - PULSE OXIMETRY UNIT

UCUM units associated with Pulse Oximetry such as percent

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3590

Codes

Value	Code System	Usage	Description	Comment
%	UCUM	Р	percent	

3.4.68 PHVS_PULSEOXIMETRYUNIT_UCUM - PULSE OXIMETRY UNIT

UCUM units associated with Pulse Oximetry such as percent

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3590

Codes

Value	Code System	Usage	Description	Comment
%	UCUM	Р	percent	

3.4.69 PHVS_RACECATEGORY_CDC - RACE CATEGORY

General race category reported by the patient - subject may have more than one

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.836

Value	Code System	Usage	Description	Comment
1002-5	CDCREC	Р	American Indian or Alaska Native	

Value	Code System	Usage	Description	Comment
2028-9	CDCREC	Р	Asian	
2054-5	CDCREC	Р	Black or African American	
2076-8	CDCREC	Р	Native Hawaiian or Other Pacific Islander	
2131-1	CDCREC	Р	Other Race	
2106-3	CDCREC	Р	White	

3.4.70 PHVS_SMOKINGSTATUS_MU - SMOKING STATUS

Smoking Status - Meaningful Use

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6027

Codes

Value	Code System	Usage	Description	Comment
8517006	SCT	Р	Ex-smoker (finding)	
77176002	SCT	Р	Smoker (finding)	
266919005	SCT	Р	Never smoked tobacco (finding)	
266927001	SCT	Р	Tobacco smoking consumption unknown (finding)	
449868002	SCT	Р	Smokes tobacco daily (finding)	
428041000124106	SCT	Р	Current some day smoker	
428061000124105	SCT	Р	Current Light tobacco smoker	
428071000124103	SCT	Р	Current Heavy tobacco smoker	

3.4.71 PHVS_SMOKINGSTATUS_MU - SMOKING STATUS

Smoking Status - Meaningful Use

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6027

Value	Code System	Usage	Description	Comment
8517006	SCT	Р	Ex-smoker (finding)	
77176002	SCT	Р	Smoker (finding)	
266919005	SCT	Р	Never smoked tobacco (finding)	
266927001	SCT	Р	Tobacco smoking consumption unknown (finding)	
449868002	SCT	Р	Smokes tobacco daily (finding)	
428041000124106	SCT	Р	Current some day smoker	

Value	Code System	Usage	Description	Comment
428061000124105	SCT	Р	Current Light tobacco smoker	
428071000124103	SCT	Р	Current Heavy tobacco smoker	

3.4.72 PHVS_SPECIMEN_CDC - SPECIMEN

Specimen based on SNOMED hierarchy (123038009) Keyword: Specimen Source, Specimen Type

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.946

3.4.73 PHVS_SPECIMENTYPE_HL7_2X - SPECIMEN TYPE (HL7)

Specimen Type (HL7)

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6046

Value	Code System	Usage	Description	Comment
ABS	HL70487	Р	Abscess	Abscess
PELVA	HL70487	Р	Abscess, Pelvic	Abscess, Pelvic
PERIA	HL70487	Р	Abscess, Perianal	Abscess, Perianal
RECTA	HL70487	Р	Abscess, Rectal	Abscess, Rectal
SCROA	HL70487	Р	Abscess, Scrotal	Abscess, Scrotal
SUBMA	HL70487	Р	Abscess, Submandibular	Abscess, Submandibular
SUBMX	HL70487	Р	Abscess, Submaxillary	Abscess, Submaxillary
TSTES	HL70487	Р	Abscess, Testicular	Abscess, Testicular
AIRS	HL70487	Р	Air Sample	Air Sample
ALL	HL70487	Р	Allograft	Allograft
AMP	HL70487	Р	Amputation	Amputation
GASAN	HL70487	Р	Antrum, Gastric	Antrum, Gastric
ASP	HL70487	Р	Aspirate	Aspirate
ETA	HL70487	Р	Aspirate, Endotrach	Aspirate, Endotrach
GASA	HL70487	Р	Aspirate, Gastric	Aspirate, Gastric
NGASP	HL70487	Р	Aspirate, Nasogastric	Aspirate, Nasogastric
TASP	HL70487	Р	Aspirate, Tracheal	Aspirate, Tracheal
TTRA	HL70487	Р	Aspirate, Transtracheal	Aspirate, Transtracheal
AUTP	HL70487	Р	Autopsy	Autopsy
ВХ	HL70487	Р	Biopsy	Biopsy
GSPEC	HL70487	Р	Biopsy, Gastric	Biopsy, Gastric
SKBP	HL70487	Р	Biopsy, Skin	Biopsy, Skin

Value	Code System	Usage	Description	Comment
CONE	HL70487	Р	Biospy, Cone	Biospy, Cone
BITE	HL70487	Р	Bite	Bite
CBITE	HL70487	Р	Bite, Cat	Bite, Cat
DBITE	HL70487	Р	Bite, Dog	Bite, Dog
HBITE	HL70487	Р	Bite, Human	Bite, Human
IBITE	HL70487	Р	Bite, Insect	Bite, Insect
RBITE	HL70487	Р	Bite, Reptile	Bite, Reptile
BLEB	HL70487	Р	Bleb	Bleb
BLIST	HL70487	Р	Blister	Blister
BBL	HL70487	Р	Blood bag	Blood bag
BPU	HL70487	Р	Blood product unit	Blood product unit
HBLUD	HL70487	Р	Blood, Autopsy	Blood, Autopsy
CSVR	HL70487	Р	Blood, Cell Saver	Blood, Cell Saver
FBLOOD	HL70487	Р	Blood, Fetal	Blood, Fetal
MBLD	HL70487	Р	Blood, Menstrual	Blood, Menstrual
WB	HL70487	Р	Blood, Whole	Blood, Whole
BOIL	HL70487	Р	Boil	Boil
BON	HL70487	Р	Bone	Bone
BOWL	HL70487	Р	Bowel contents	Bowel contents
BRTH	HL70487	Р	Breath (use EXHLD)	Breath (use EXHLD)
BRSH	HL70487	Р	Brush	Brush
EBRUSH	HL70487	Р	Brush, Esophageal	Brush, Esophageal
BRUS	HL70487	Р	Brushing	Brushing
GASBR	HL70487	Р	Brushing, Gastric	Brushing, Gastric
BUB	HL70487	Р	Bubo	Bubo
BULLA	HL70487	Р	Bulla/Bullae	Bulla/Bullae
BRN	HL70487	Р	Burn	Burn
CALC	HL70487	Р	Calculus (=Stone)	Calculus (=Stone)
CARBU	HL70487	Р	Carbuncle	Carbuncle
CAT	HL70487	Р	Catheter	Catheter
CSITE	HL70487	Р	Catheter Insertion Site	Catheter Insertion Site
СТР	HL70487	Р	Catheter tip	Catheter tip
ANGI	HL70487	Р	Catheter Tip, Angio	Catheter Tip, Angio
ARTC	HL70487	Р	Catheter Tip, Arterial	Catheter Tip, Arterial
CVPT	HL70487	Р	Catheter Tip, CVP	Catheter Tip, CVP
ETTP	HL70487	Р	Catheter Tip, Endotracheal	Catheter Tip, Endotracheal
FOLEY	HL70487	Р	Catheter Tip, Foley	Catheter Tip, Foley
HEMAQ	HL70487	Р	Catheter Tip, Hemaquit	Catheter Tip, Hemaquit

Value	Code System	Usage	Description	Comment
HEMO	HL70487	Р	Catheter Tip, Hemovac	Catheter Tip, Hemovac
IDC	HL70487	Р	Catheter Tip, Indwelling	Catheter Tip, Indwelling
INTRD	HL70487	Р	Catheter Tip, Introducer	Catheter Tip, Introducer
IVCAT	HL70487	Р	Catheter Tip, IV	Catheter Tip, IV
MAHUR	HL70487	Р	Catheter Tip, Makurkour	Catheter Tip, Makurkour
SCLV	HL70487	Р	Catheter Tip, Subclavian	Catheter Tip, Subclavian
SPRP	HL70487	Р	Catheter Tip, Suprapubic	Catheter Tip, Suprapubic
SWGZ	HL70487	Р	Catheter Tip, Swan Gantz	Catheter Tip, Swan Gantz
VASTIP	HL70487	Р	Catheter Tip, Vas	Catheter Tip, Vas
VENT	HL70487	Р	Catheter Tip, Ventricular	Catheter Tip, Ventricular
GROSH	HL70487	Р	Catheter, Groshong	Catheter, Groshong
HIC	HL70487	Р	Catheter, Hickman	Catheter, Hickman
PORTA	HL70487	Р	Catheter, Porta	Catheter, Porta
SPRPB	HL70487	Р	Cathether Tip, Suprapubic	Cathether Tip, Suprapubic
TLC	HL70487	Р	Cathether Tip, Triple Lumen	Cathether Tip, Triple Lumen
CLIPP	HL70487	Р	Clippings	Clippings
COL	HL70487	Р	Colostrum	Colostrum
CNJT	HL70487	Р	Conjunctiva	Conjunctiva
LENS1	HL70487	Р	Contact Lens	Contact Lens
LENS2	HL70487	Р	Contact Lens Case	Contact Lens Case
CYST	HL70487	Р	Cyst	Cyst
BCYST	HL70487	Р	Cyst, Baker's	Cyst, Baker's
ICYST	HL70487	Р	Cyst, Inclusion	Cyst, Inclusion
PILOC	HL70487	Р	Cyst, Pilonidal	Cyst, Pilonidal
RENALC	HL70487	Р	Cyst, Renal	Cyst, Renal
DIA	HL70487	Р	Dialysate	Dialysate
DISCHG	HL70487	Р	Discharge	Discharge
DIV	HL70487	Р	Diverticulum	Diverticulum
DRN	HL70487	Р	Drain	Drain
HEV	HL70487	Р	Drain, Hemovac	Drain, Hemovac
GTUBE	HL70487	Р	Drainage Tube, Drainage (Gastrostomy)	Drainage Tube, Drainage (Gastrostomy)
GASD	HL70487	Р	Drainage, Gastric	Drainage, Gastric
ILEO	HL70487	Р	Drainage, Ileostomy	Drainage, Ileostomy

Value	Code System	Usage	Description	Comment
JP	HL70487	Р	Drainage, Jackson Pratt	Drainage, Jackson Pratt
JEJU	HL70487	Р	Drainage, Jejunal	Drainage, Jejunal
NASDR	HL70487	Р	Drainage, Nasal	Drainage, Nasal
NGAST	HL70487	Р	Drainage, Nasogastric	Drainage, Nasogastric
PND	HL70487	Р	Drainage, Penile	Drainage, Penile
DRNGP	HL70487	Р	Drainage, Penrose	Drainage, Penrose
RECT	HL70487	Р	Drainage, Rectal	Drainage, Rectal
SUMP	HL70487	Р	Drainage, Sump	Drainage, Sump
DRNG	HL70487	Р	Drainage, Tube	Drainage, Tube
EARW	HL70487	Р	Ear wax (cerumen)	Ear wax (cerumen)
EFFUS	HL70487	Р	Effusion	Effusion
ELT	HL70487	Р	Electrode	Electrode
AUTOC	HL70487	Р	Environment, Attest	Environment, Attest
ATTE	HL70487	Р	Environmental, Autoclave Ampule	Environmental, Autoclave Ampule
EFF	HL70487	Р	Environmental, Effluent	Environmental, Effluent
EEYE	HL70487	Р	Environmental, Eye Wash	Environmental, Eye Wash
EFOD	HL70487	Р	Environmental, Food	Environmental, Food
EISO	HL70487	Р	Environmental, Isolette	Environmental, Isolette
EOTH	HL70487	Р	Environmental, Other Substance	Environmental, Other Substance
ESOI	HL70487	Р	Environmental, Soil	Environmental, Soil
ESOS	HL70487	Р	Environmental, Solution (Sterile)	Environmental, Solution (Sterile)
SPS	HL70487	Р	Environmental, Spore Strip	Environmental, Spore Strip
STER	HL70487	Р	Environmental, Sterrad	Environmental, Sterrad
ENVIR	HL70487	Р	Environmental, Unidentified Substance	Environmental, Unidentified Substance
WWA	HL70487	Р	Environmental, Water	Environmental, Water
DEION	HL70487	Р	Environmental, Water (Deionized)	Environmental, Water (Deionized)
WWT	HL70487	Р	Environmental, Water (Tap)	Environmental, Water (Tap)
FAW	HL70487	Р	Environmental, Water (Well)	Environmental, Water (Well)
wwo	HL70487	Р	Environmental, Water (Ocean)	Environmental, Water (Ocean)
EWHI	HL70487	Р	Environmental, Whirlpool	Environmental, Whirlpool

Value	Code System	Usage	Description	Comment
EXUDTE	HL70487	Р	Exudate	Exudate
FLT	HL70487	Р	Filter	Filter
FIST	HL70487	Р	Fistula	Fistula
FLUID	HL70487	Р	Fluid	Fluid
FGA	HL70487	Р	Fluid, Abdomen	Fluid, Abdomen
CSMY	HL70487	Р	Fluid, Cystostomy Tube	Fluid, Cystostomy Tube
ACNFLD	HL70487	Р	Fluid, Acne	Fluid, Acne
FLU	HL70487	Р	Fluid, Body unsp	Fluid, Body unsp
CST	HL70487	Р	Fluid, Cyst	Fluid, Cyst
HYDC	HL70487	Р	Fluid, Hydrocele	Fluid, Hydrocele
IVFLD	HL70487	Р	Fluid, IV	Fluid, IV
JNTFLD	HL70487	Р	Fluid, Joint	Fluid, Joint
KIDFLD	HL70487	Р	Fluid, Kidney	Fluid, Kidney
LSAC	HL70487	Р	Fluid, Lumbar Sac	Fluid, Lumbar Sac
FLD	HL70487	Р	Fluid, Other	Fluid, Other
PCFL	HL70487	Р	Fluid, Pericardial	Fluid, Pericardial
RENC	HL70487	Р	Fluid, Renal Cyst	Fluid, Renal Cyst
FRS	HL70487	Р	Fluid, Respiratory	Fluid, Respiratory
SHUNF	HL70487	Р	Fluid, Shunt	Fluid, Shunt
SNV	HL70487	Р	Fluid, synovial (Joint fluid)	Fluid, synovial (Joint fluid)
GAST	HL70487	Р	Fluid/contents, Gastric	Fluid/contents, Gastric
FUR	HL70487	Р	Furuncle	Furuncle
GAS	HL70487	Р	Gas	Gas
EXG	HL70487	Р	Gas, exhaled (=breath)	Gas, exhaled (=breath)
IHG	HL70487	Р	Gas, Inhaled	Gas, Inhaled
GENV	HL70487	Р	Genital vaginal	Genital vaginal
GRAFT	HL70487	Р	Graft	Graft
POPGS	HL70487	Р	Graft Site, Popliteal	Graft Site, Popliteal
POPLG	HL70487	Р	Graft, Popliteal	Graft, Popliteal
GRANU	HL70487	Р	Granuloma	Granuloma
IMP	HL70487	Р	Implant	Implant
INFIL	HL70487	Р	Infiltrate	Infiltrate
INS	HL70487	Р	Insect	Insect
IUD	HL70487	Р	Intrauterine Device	Intrauterine Device
IT	HL70487	Р	Intubation tube	Intubation tube
KELOI	HL70487	Р	Lavage	Lavage
LAVG	HL70487	Р	Lavage, Bronhial	Lavage, Bronhial
LAVGG	HL70487	Р	Lavage, Gastric	Lavage, Gastric

Value	Code System	Usage	Description	Comment
LAVGP	HL70487	Р	Lavage, Peritoneal	Lavage, Peritoneal
LAVPG	HL70487	Р	Lavage, Pre-Bronch	Lavage, Pre-Bronch
LESN	HL70487	Р	Lesion	Lesion
ORL	HL70487	Р	Lesion, Oral	Lesion, Oral
PENIL	HL70487	Р	Lesion, Penile	Lesion, Penile
LIQO	HL70487	Р	Liquid, Other	Liquid, Other
LIQ	HL70487	Р	Liquid, Unspecified	Liquid, Unspecified
MASS	HL70487	Р	Mass	Mass
SMM	HL70487	Р	Mass, Sub-Mandibular	Mass, Sub-Mandibular
MUCOS	HL70487	Р	Mucosa	Mucosa
MUCUS	HL70487	Р	Mucus	Mucus
NEDL	HL70487	Р	Needle	Needle
NODUL	HL70487	Р	Nodule(s)	Nodule(s)
CYN	HL70487	Р	Nodule, Cystic	Nodule, Cystic
ORH	HL70487	Р	Other	Other
PACEM	HL70487	Р	Pacemaker	Pacemaker
PLAN	HL70487	Р	Plant Material	Plant Material
PLAS	HL70487	Р	Plasma	Plasma
PLB	HL70487	Р	Plasma bag	Plasma bag
PPP	HL70487	Р	Plasma, Platelet poor	Plasma, Platelet poor
PRP	HL70487	Р	Plasma, Platelet rich	Plasma, Platelet rich
POL	HL70487	Р	Polyps	Polyps
PROST	HL70487	Р	Prosthetic Device	Prosthetic Device
PSC	HL70487	Р	Pseudocyst	Pseudocyst
PUS	HL70487	Р	Pus	Pus
PUST	HL70487	Р	Pus	Pus
PUSFR	HL70487	Р	Pustule	Pustule
QC3	HL70487	Р	Quality Control	Quality Control
RES	HL70487	Р	Respiratory	Respiratory
SAL	HL70487	Р	Saliva	Saliva
FSCLP	HL70487	Р	Scalp, Fetal	Scalp, Fetal
CSCR	HL70487	Р	Scratch, Cat	Scratch, Cat
SECRE	HL70487	Р	Secretion(s)	Secretion(s)
NSECR	HL70487	Р	Secretion, Nasal	Secretion, Nasal
SER	HL70487	Р	Serum	Serum
ASERU	HL70487	Р	Serum, Acute	Serum, Acute
CSERU	HL70487	Р	Serum, Convalescent	Serum, Convalescent
PLEVS	HL70487	Р	Serum, Peak Level	Serum, Peak Level
TSERU	HL70487	Р	Serum, Trough	Serum, Trough

Value	Code System	Usage	Description	Comment
SHUNT	HL70487	Р	Shunt	Shunt
EXS	HL70487	Р	Shunt, External	Shunt, External
SITE	HL70487	Р	Site	Site
CVPS	HL70487	Р	Site, CVP	Site, CVP
INCI	HL70487	Р	Site, Incision/Surgical	Site, Incision/Surgical
NGS	HL70487	Р	Site, Naso/Gastric	Site, Naso/Gastric
NEPH	HL70487	Р	Site, Nephrostomy	Site, Nephrostomy
PIS	HL70487	Р	Site, Pacemaker Insertion	Site, Pacemaker Insertion
PDSIT	HL70487	Р	Site, Peritoneal Dialysis	Site, Peritoneal Dialysis
PDTS	HL70487	Р	Site, Peritoneal Dialysis Tunnel	Site, Peritoneal Dialysis Tunnel
PINS	HL70487	Р	Site, Pin	Site, Pin
POPLV	HL70487	Р	Site, Popliteal Vein	Site, Popliteal Vein
SHU	HL70487	Р	Site, Shunt	Site, Shunt
TRAC	HL70487	Р	Site, Tracheostomy	Site, Tracheostomy
SKN	HL70487	Р	Skin	Skin
TZANC	HL70487	Р	Smear, Tzanck	Smear, Tzanck
GSOL	HL70487	Р	Solution, Gastrostomy	Solution, Gastrostomy
ILLEG	HL70487	Р	Source of Specimen Is Illegible	Source of Specimen Is Illegible
OTH	HL70487	Р	Source, Other	Source, Other
UDENT	HL70487	Р	Source, Unidentified	Source, Unidentified
USPEC	HL70487	Р	Source, Unspecified	Source, Unspecified
SPRM	HL70487	Р	Spermatozoa	Spermatozoa
SPT	HL70487	Р	Sputum	Sputum
SPTC	HL70487	Р	Sputum - coughed	Sputum - coughed
SPTT	HL70487	Р	Sputum - tracheal aspirate	Sputum - tracheal aspirate
DCS	HL70487	Р	Sputum, Deep Cough	Sputum, Deep Cough
SPUTIN	HL70487	Р	Sputum, Inducted	Sputum, Inducted
SPUT1	HL70487	Р	Sputum, Simulated	Sputum, Simulated
SPUTSP	HL70487	Р	Sputum, Spontaneous	Sputum, Spontaneous
STONE	HL70487	Р	Stone, Kidney	Stone, Kidney
STL	HL70487	Р	Stool = Fecal	Stool = Fecal
SUP	HL70487	Р	Suprapubic Tap	Suprapubic Tap
SUTUR	HL70487	Р	Suture	Suture
TISS	HL70487	Р	Tissue	Tissue
TISU	HL70487	Р	Tissue ulcer	Tissue ulcer
ACNE	HL70487	Р	Tissue, Acne	Tissue, Acne

Value	Code System	Usage	Description	Comment
HERNI	HL70487	Р	Tissue, Herniated	Tissue, Herniated
SCAR	HL70487	Р	Tissue, Keloid (Scar)	Tissue, Keloid (Scar)
TRANS	HL70487	Р	Transudate	Transudate
ETTUB	HL70487	Р	Tube, Endotracheal	Tube, Endotracheal
GT	HL70487	Р	Tube, Gastric	Tube, Gastric
TUBES	HL70487	Р	Tubes	Tubes
IVTIP	HL70487	Р	Tubing Tip, IV	Tubing Tip, IV
TUMOR	HL70487	Р	Tumor	Tumor
DEC	HL70487	Р	Ulcer, Decubitus	Ulcer, Decubitus
UR	HL70487	Р	Urine	Urine
URT	HL70487	Р	Urine catheter	Urine catheter
URC	HL70487	Р	Urine clean catch	Urine clean catch
URINB	HL70487	Р	Urine, Bladder Washings	Urine, Bladder Washings
URINC	HL70487	Р	Urine, Catheterized	Urine, Catheterized
USCOP	HL70487	Р	Urine, Cystoscopy	Urine, Cystoscopy
URINM	HL70487	Р	Urine, Midstream	Urine, Midstream
URINN	HL70487	Р	Urine, Nephrostomy	Urine, Nephrostomy
URINP	HL70487	Р	Urine, Pedibag	Urine, Pedibag
RANDU	HL70487	Р	Urine, Random	Urine, Random
VITF	HL70487	Р	Vitreous Fluid	Vitreous Fluid
VOM	HL70487	Р	Vomitus	Vomitus
WRT	HL70487	Р	Wart	Wart
WASH	HL70487	Р	Wash	Wash
WASI	HL70487	Р	Washing, e.g. bronchial washing	Washing, e.g. bronchial washing
WAT	HL70487	Р	Water	Water
WEN	HL70487	Р	Wen	Wen
WICK	HL70487	Р	Wick	Wick
WORM	HL70487	Р	Worm	Worm
WND	HL70487	Р	Wound	Wound
WNDA	HL70487	Р	Wound abscess	Wound abscess
WNDD	HL70487	Р	Wound drainage	Wound drainage
WNDE	HL70487	Р	Wound exudate	Wound exudate
PUNCT	HL70487	Р	Wound, Puncture	Wound, Puncture

3.4.74 PHVS STATE FIPS 5-2 - STATE

State codes for U.S. based on FIPS 5-2

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.830

Value	Code System	Usage	Description	Comment
01	FIPS5_2	Р	Alabama	
02	FIPS5_2	Р	Alaska	
04	FIPS5_2	Р	Arizona	
05	FIPS5_2	Р	Arkansas	
06	FIPS5_2	Р	California	
08	FIPS5_2	Р	Colorado	
09	FIPS5_2	Р	Connecticut	
10	FIPS5_2	Р	Delaware	
11	FIPS5_2	Р	District of Columbia	
12	FIPS5_2	Р	Florida	
13	FIPS5_2	Р	Georgia	
15	FIPS5_2	Р	Hawaii	
16	FIPS5_2	Р	Idaho	
17	FIPS5_2	Р	Illinois	
18	FIPS5_2	Р	Indiana	
19	FIPS5_2	Р	lowa	
20	FIPS5_2	Р	Kansas	
21	FIPS5_2	Р	Kentucky	
22	FIPS5_2	Р	Louisiana	
23	FIPS5_2	Р	Maine	
24	FIPS5_2	Р	Maryland	
25	FIPS5_2	Р	Massachusetts	
26	FIPS5_2	Р	Michigan	
27	FIPS5_2	Р	Minnesota	
28	FIPS5_2	Р	Mississippi	
29	FIPS5_2	Р	Missouri	
30	FIPS5_2	Р	Montana	
31	FIPS5_2	Р	Nebraska	
32	FIPS5_2	Р	Nevada	
33	FIPS5_2	Р	New Hampshire	
34	FIPS5_2	Р	New Jersey	
35	FIPS5_2	Р	New Mexico	
36	FIPS5_2	Р	New York	

Value	Code System	Usage	Description	Comment
37	FIPS5_2	Р	North Carolina	
38	FIPS5_2	Р	North Dakota	
39	FIPS5_2	Р	Ohio	
40	FIPS5_2	Р	Oklahoma	
41	FIPS5_2	Р	Oregon	
42	FIPS5_2	Р	Pennsylvania	
44	FIPS5_2	Р	Rhode Island	
45	FIPS5_2	Р	South Carolina	
46	FIPS5_2	Р	South Dakota	
47	FIPS5_2	Р	Tennessee	
48	FIPS5_2	Р	Texas	
49	FIPS5_2	Р	Utah	
50	FIPS5_2	Р	Vermont	
51	FIPS5_2	Р	Virginia	
53	FIPS5_2	Р	Washington	
54	FIPS5_2	Р	West Virginia	
55	FIPS5_2	Р	Wisconsin	
56	FIPS5_2	Р	Wyoming	
60	FIPS5_2	Р	American Samoa	
64	FIPS5_2	Р	Federated States of Micronesia	
66	FIPS5_2	Р	Guam	
67	FIPS5_2	Р	Johnston Atoll	
68	FIPS5_2	Р	Marshall Islands	
69	FIPS5_2	Р	Northern Mariana Islands	
70	FIPS5_2	Р	Palau	
71	FIPS5_2	Р	Midway Islands	
72	FIPS5_2	Р	Puerto Rico	
74	FIPS5_2	Р	U.S. Minor Outlying Islands	
76	FIPS5_2	Р	Navassa Island	
78	FIPS5_2	Р	Virgin Islands of the U.S.	
79	FIPS5_2	Р	Wake Island	
81	FIPS5_2	Р	Baker Island	
84	FIPS5_2	Р	Howland Island	
86	FIPS5_2	Р	Jarvis Island	
89	FIPS5_2	Р	Kingman Reef	
95	FIPS5_2	Р	Palmyra Atoll	

3.4.75 PHVS_TEMPERATUREUNIT_UCUM - TEMPERATURE UNIT

Units of measure for temperature

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.919

Codes

Value	Code System	Usage	Description	Comment
Cel	UCUM	Р	degree Celsius	
[degF]	UCUM	Р	degree Fahrenheit	

3.4.76 PHVS TEMPERATUREUNIT UCUM - TEMPERATURE UNIT

Units of measure for temperature

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.919

Codes

Value	Code System	Usage	Description	Comment
Cel	UCUM	Р	degree Celsius	
[degF]	UCUM	Р	degree Fahrenheit	

3.4.77 PHVS UNITSOFMEASURE CDC - UNITS OF MEASURE

Units of Measure based on UCUM std which also includes dimension

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.838

3.4.78 PHVS_UNIVERSALIDTYPE_SYNDROMICSURVEILLANCE - UNIVERSAL ID TYPE (SYNDROMIC SURVEILLANCE)

List of Universal ID Types supported by Syndromic Surveillance IG.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6050

Value	Code System	Usage	Description	Comment
ISO	HL70301	IP .	An International Standards Organization Object Identifier	
DNS	HL70301	IP .	An Internet dotted name. Either in ASCII or as integers	
x400	HL70301	Р	An X.400 MHS format identifier	

Value	Code System	Usage	Description	Comment
x500	HL70301	Р	An X.500 directory name	
CLIA	HL70301	Р	Clinical Laboratory Improvement Amendments	Clinical Laboratory Improvement Amendments - CLIA
NPI	HL70203	Р	National provider identifier	
HL7	HL70301	Р	Reserved for future HL7 registration schemes	
GUID	HL70301	Р	Same as UUID.	
HCD	HL70301	Р	The CEN Healthcare Coding Scheme Designator. (Identifiers used in DICOM follow this assignment scheme.)	
UUID	HL70301	Р	The DCE Universal Unique Identifier	
L,M,N	HL70301	Р	These are reserved for locally defined coding schemes.	
URI	HL70301	Р	Uniform Resource Identifier	
Random	HL70301	Р	Usually a base64 encoded string of random bits.	

3.4.79 PHVS_VALUETYPE_SYNDROMICSURVEILLANCE - VALUE TYPE (SYNDROMIC SURVEILLANCE)

Constrained value set of HI7 Table 0125 Value Type for Syndromic Surveillance (ED).

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6057

Codes

Value	Code System	Usage	Description	Comment
CWE	HL70125	Р	Coded With Exceptions	Coded With Exceptions
XAD	HL70125	Р	Extended Address	
HD	HL70125	Р	Hierarchic designator	
NM	HL70125	Р	Numeric	
TX	HL70125	Р	Text Data (Display)	
TS	HL70125	Р	Time Stamp (Date & Time)	

3.4.80 PHVS_VITALSIGNRESULT_HITSP - VITAL SIGN RESULT VALUE SET

This identifies the vital sign result type

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.80.62

Codes

Value	Code System	Usage	Description	Comment
8302-2	LN	Р	Body height:Len:Pt:Patient:Qn:	
8306-3	LN	Р	Body height-lying:Len:Pt:Patient:Qn:	
8310-5	LN	Р	Body temperature:Temp:Pt:Patient:Qn:	
3141-9	LN	Р	Body weight:Mass:Pt:Patient:Qn:Measured	
9279-1	LN	Р	Breaths:NRat:Pt:Respiratory system:Qn:	
8287-5	LN	Р	Circumference.occipital-frontal:Len:Pt:Head:Qn:Tape measure	
8867-4	LN	Р	Heart beat:NRat:Pt:XXX:Qn:	
8462-4	LN	Р	Intravascular diastolic:Pres:Pt:Arterial system:Qn:	
8480-6	LN	Р	Intravascular systolic:Pres:Pt:Arterial system:Qn:	
2710-2	LN	Р	Oxygen saturation:SFr:Pt:BldC:Qn:Oximetry	

3.4.81 PHVS_WEIGHTUNIT_UCUM - WEIGHT UNIT

Units for measuring weight based on UCUM std.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.879

Codes

Value	Code System	Usage	Description	Comment
g	UCUM	Р	gram	
kg	UCUM	Р	Kilogram [SI Mass Units]	
[oz_av]	UCUM	Р	ounce	
[lb_av]	UCUM	Р	pound	

3.4.82 PHVS_WEIGHTUNIT_UCUM - WEIGHT UNIT

Units for measuring weight based on UCUM std.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.879

Value	Code System	Usage	Description	Comment
g	UCUM	Р	gram	
kg	UCUM	Р	Kilogram [SI Mass Units]	
[oz_av]	UCUM	Р	ounce	
[lb_av]	UCUM	Р	pound	

3.4.83 PHVS_YESNOUNKNOWN_CDC - YES NO UNKNOWN (YNU)

Value set used to respond to any question that can be answered Yes, No, or Unknown.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.888

Codes

Value	Code System	Usage	Description	Comment
N	HL70136	Р	No	
UNK	NULLFL	Р	unknown	
Υ	HL70136	Р	Yes	

3.4.84 PHVS_YESNOUNKNOWN_CDC - YES NO UNKNOWN (YNU)

Value set used to respond to any question that can be answered Yes, No, or Unknown.

Reference URL: https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.888

Codes

Value	Code System	Usage	Description	Comment
N	HL70136	Р	No	
UNK	NULLFL	Р	unknown	
Υ	HL70136	Р	Yes	

3.5 Conformance information

3.5.1 CONFORMANCE STATEMENTS

3.5.1.1 **CONFORMANCE PROFILE LEVEL**

3.5.1.1.1 **ADT^A01^ADT_A01**

ID	Description
AckType_1681377	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A01^ADT_A01	The value of MSH.9.2 (Trigger Event) SHALL be 'A01'.
ADT^A01^ADT_A01	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-Ack_2960116	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.5.1.1.2 **ADT^A03^ADT A03**

ID	Description
AckType_4351259	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A03^ADT_A03	The value of MSH.9.2 (Trigger Event) SHALL be 'A03'.
ADT^A03^ADT_A03	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A03'.

ID	Description
PH_SS-Ack_7346782	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.5.1.1.3 <u>ADT^A04^ADT_A01</u>

ID	Description
AckType_8067053	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A04^ADT_A01	The value of MSH.9.2 (Trigger Event) SHALL be 'A04'.
ADT^A04^ADT_A01	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-Ack_9140116	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.5.1.1.4 <u>ADT^A08^ADT_A01</u>

ID	Description
AckType_5113288	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'AL'.
ADT^A08^ADT_A01	The value of MSH.9.2 (Trigger Event) SHALL be 'A08'.
ADT^A08^ADT_A01	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-Ack_1802444	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-Ack'.

3.5.1.1.5 **ADT^A01^ADT_A01**

ID	Description
AckType_4019587	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.
ADT^A01^ADT_A01noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A01'.
ADT^A01^ADT_A01noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-NoAck_7367878	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.5.1.1.6 **ADT^A03^ADT_A03**

ID	Description
AckType_6780947	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.
ADT_A03^ADT_A03noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A03'.
ADT_A03^ADT_A03noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A03'.
PH_SS-NoAck_6545561	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.5.1.1.7 <u>ADT^A04^ADT_A01</u>

ID	Description
AckType_9793992	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.
ADT^A04^ADT_A01noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A04'.
ADT^A04^ADT_A01noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-NoAck_1252103	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.5.1.1.8 **ADT^A08^ADT_A01**

ID	Description
AckType_926248	The value of MSH.15 (Accept Acknowledgment Type) SHALL be 'NE'.

ID	Description
ADT^A08^ADT_A01noAck	The value of MSH.9.2 (Trigger Event) SHALL be 'A08'.
ADT^A08^ADT_A01noAck	The value of MSH.9.3 (Message Structure) SHALL be 'ADT_A01'.
PH_SS-NoAck_5023083	The value of MSH.21[*].1 (Entity Identifier) SHALL be 'PH_SS-NoAck'.

3.5.1.2 **SEGMENT LEVEL**

3.5.1.2.1 **DG1_SS - DIAGNOSIS**

ID	Description
DG1_SS_5972520	The value of DG1-6 SHALL be one of list values: A,W,F.
DG1_SS_8603629	The value of DG1-3.3 SHALL be one of list values: I10,SCT.

3.5.1.2.2 MSA SS - MESSAGE ACKNOWLEDGMENT

ID	Description
MSA_SS_5067426	MSH-2 Shall match MSH-10 value of message being acknowledged

3.5.1.2.3 MSH_SS - MESSAGE HEADER

ID	Description
MSH_SS_4549814	The value of MSH-11 SHALL be one of list values: P,D,T.
MSH_SS_4611129	The value of MSH-1 (Field Separator) SHALL be ' '.
MSH_SS_6631423	The value of MSH-21[*].3 SHALL be '2.16.840.1.114222.4.10.3'.
MSH_SS_7071588	The value of MSH-9.1 SHALL be 'ADT'.
MSH_SS_7465888	The value of MSH-2 (Encoding Characters) SHALL be '^~\&'.
MSH_SS_7840690	The value of MSH-21[*].2 SHALL be 'SS Sender'.
MSH_SS_9284050	The value of MSH-21[*].4 SHALL be 'ISO'.
MSH_SS_9983603	The value of MSH-12 (Version ID) SHALL be '2.5.1'.

3.5.1.2.4 MSH_SS_ACK - MESSAGE HEADER

ID	Description
MSH_SS_4611129	The value of MSH-1 (Field Separator) SHALL be ' '.
MSH_SS_7465888	The value of MSH-2 (Encoding Characters) SHALL be '^~\&'.
MSH_SS_9983603	The value of MSH-12 (Version ID) SHALL be '2.5.1'.
MSH_SS_ACK_1300132	The value of MSH-21[*].1 SHALL be one of list values: PH_SS-Ack,PH_SS-NoAck.
MSH_SS_ACK_2828470	The value of MSH-9.1 SHALL be 'ACK'.
MSH_SS_ACK_5325682	The value of MSH-21[*].4 SHALL be 'ISO'.
MSH_SS_ACK_6464700	The value of MSH-11 SHALL be one of list values: P,D,T.
MSH_SS_ACK_6802085	The value of MSH-9.2 SHALL be one of list values: A01,A03,A04,A08.
MSH_SS_ACK_8564584	The value of MSH-9.3 SHALL be 'ACK'.
MSH_SS_ACK_9102733	The value of MSH-21[*].3 SHALL be '2.16.840.1.114222.4.10.3'.
MSH_SS_ACK_9484104	The value of MSH-21[*].2 SHALL be 'SS Receiver'.

3.5.1.2.5 OBX_SS - OBSERVATION/RESULT

ID	Description
ICIBX //8944/ /355451	The value of OBX-1 (Set ID - OBX) SHALL be valued sequentially starting with the value '1'.

3.5.1.2.6 PID_SS_A01 - PATIENT IDENTIFICATION

ID	Description
	If the patient's legal name is not sent, the value of PID-5[*] (Patient Name) SHALL be one of list values: ~^^^^^S , ~^^^^U

3.5.1.2.7 PID_SS_A04_A08_A03 - PATIENT IDENTIFICATION

ID	Description
PID_SS_2166276	The value of PID-1 (Set ID - PID) SHALL be '1'.
	If the patient's legal name is not sent, the value of PID-5[*] (Patient Name) SHALL be one of list values: ~^^^^^S , ~^^^^^U

3.5.1.2.8 **PR1_SS - PROCEDURES**

ID	Description
IPRI SS nn tuun/i	PR1-3.1 shall be populated with a value from one for the following coding systems: CPT4, ICD10-CM-PCS
PR1_SS_7457997	The value of PR1-3.3 SHALL be one of list values: C4, I10P.

3.5.1.3 **DATATYPE LEVEL**

3.5.1.3.1 PT - PROCESSING TYPE

ID	Description
PT_SS_6152904	The value of PT-1 (Processing ID) SHALL be one of list values: P,T,D.

3.5.2 CONDITIONAL PREDICATES

3.5.2.1 SEGMENT LEVEL

3.5.2.1.1 OBX_SS - OBSERVATION/RESULT

Location	Usage	Description
OBX-6	C(R/X)	If the value of OBX-2 (Value Type) is 'NM'.

3.5.2.1.2 PID_SS_A04_A08_A03 - PATIENT IDENTIFICATION

Location	Usage	Description
PID-29	C(R/RE)	If PV1-36 (Discharge Disposition) is valued with any of the following: '20', '40', '41', '42'
PID-30	C(R/RE)	If PV1-36 (Discharge Disposition) is valued with any of the following: '20', '40', '41', '42'

3.5.2.2 DATATYPE LEVEL

3.5.2.2.1 **CE - CODED ELEMENT**

Location	Usage	Description
CE.3	C(R/X)	If CE.1 (Identifier) is valued
CE.6	C(R/X)	If CE.4 (Alternate Identifier) is valued

3.5.2.2.2 **CWE - CODED WITH EXCEPTIONS**

Location	Usage	Description
CWE.3	C(R/X)	If CWE.3 (Name of Coding System) is valued
CWE.6	C(R/X)	If CWE.6 (Name of Alternate Coding System) is valued

3.5.2.2.3 **CE - CODED ELEMENT**

Location	Usage	Description
CE.3	C(R/X)	If CE.1 (Identifier) is valued